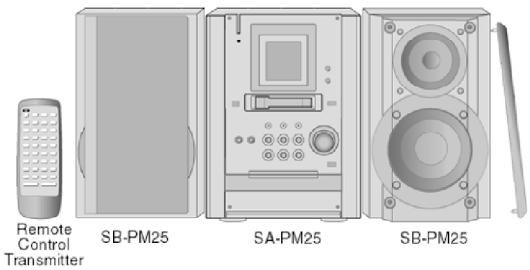
ORDER NO. MD0107176C3

Service Manual

CD Stereo System

SA-PM25

Colour
(S)... Silver Type
Area
(GD)... South Korea
TAPE SECTION
AR2 MECHANISM SERIES
CD SECTION
RAE0155Z-1V TRAVERSE DECK SERIES



SPECIFICATIONS

Specification

■ Amplifier Section

Power output	
THD 10%, both channels driven	
100 Hz, both channels driven, (LOW)	**9 W (6 Ω)**
1 kHz, both channels driven (HIGH)	**5 W (6 Ω)**
Total BI-AMP power	**14 W**
PMPO power output	
Total BI-AMP power	**160 W**
Input sensitivity	
AUX	**250 mV**
Input impedance	
AUX	**47 kΩ**
Output impedance	
Headphone	**16-32 Ω**

■ FM Tuner Section

Frequency range	**87.50-108.00 MHz (0.05 MHz steps)**
Sensitivity	**1.8 μV (IHF)**
S/N 26 dB	**1.5 μV**
Antenna terminals	**75 Ω unbalanced**

■ AM Tuner Section

Frequency range	**522-1629 kHz (9 kHz steps) 520-1630 kHz (10 kHz steps)**
Sensitivity	
S/N 20 dB (at 999 kHz)	**500 μV/m**

■ Cassette Deck Section

Track system	**4 track, 2 channel**
Heads	
Record/playback	**Solid permalloy head**
Erasure	**Double gap ferrite head**
Motor	**DC servo motor**
Recording system	**AC bias 100kHz**
Erasing system	**AC erase 100kHz**
Tape speed	**4.8 cm/s**
Overall frequency reponse (+3dB, -6dB at DECK OUT)	
NORMAL (TYPE I)	**50 Hz - 13 kHz**
HIGH (TYPE II)	**50 Hz - 13 kHz**
S/N ratio	**52 dB (A weighted)**
Wow and flutter	**0.18 % (WRMS)**
Fast forward and rewind time	**Approx. 120 seconds with C-60 cassette tape**

■ CD Section

Sampling frequency	**44.1kHz**
Decoding	**16 bit linear**
Beam source	**Semiconductor laser**
Wave length	**780 nm**
Number of channels	**2 channels stereo**
Wow and flutter	**Below measurable limit**
Digital filter	**8 fs**
D/A converter	**MASH (1 bit DAC)**

■ General

Power supply	AC 220 V, 60 Hz
Power consumption	54 W
Power consumption in standby mode	0.7 W
Dimensions (WxHxD)	180 x 241 x 318 mm
Mass	4.6 kg

Notes :

1. Specifications are subject to change without notices. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ System: SC-PM25 (GD) Music Center: SA-PM25 (GD)

Speaker: SB-PM25 (EG)

Panasonic®

1. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C512 through a 10 Ω , 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

- Current consumption at AC 220V, 60 Hz in NO SIGNAL mode should be ~150mA.

2. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.

2. Determine the cause of the problem and correct it.

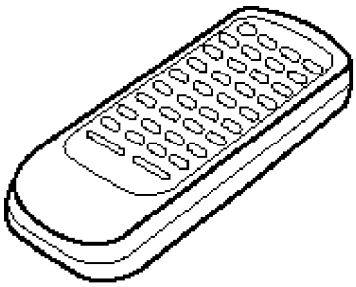
3. Turn on the power once again after one minute.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

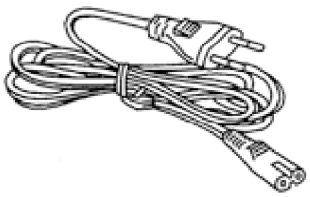
3. Accessories

Note : Refer to Packing Materials & Accessories for part number.

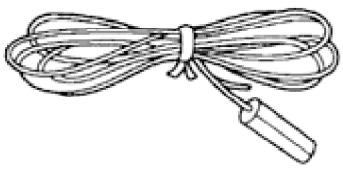
Remote Control Transmitter



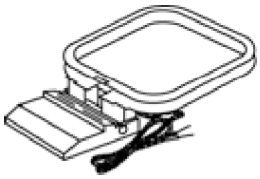
AC Power Supply



FM Indoor Antenna



AM Loop Antenna



4. Handling Precautions For Traverse Deck

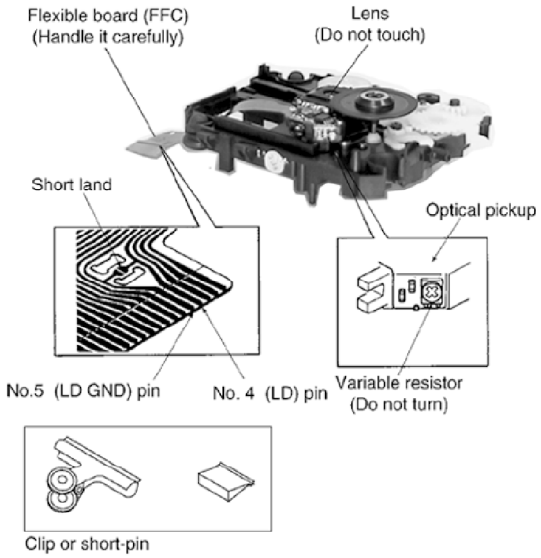
The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.
So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

● **Handling of CD traverse deck (optical pickup)**

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **The short land between the No.4 (LD) and No.5 (GND) pins on the flexible board (FFC) is shorted with a solder build-up to prevent**

damage to the laser diode.

3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

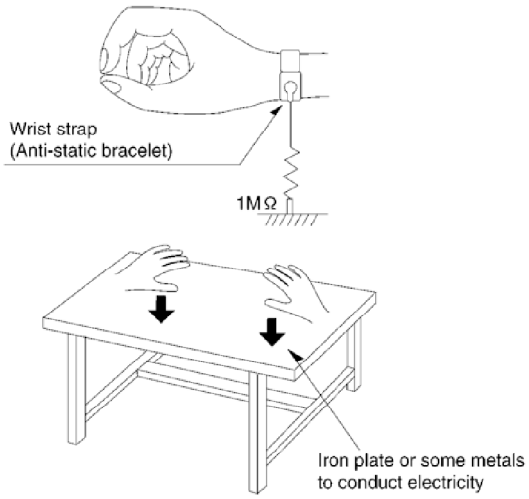


● **Grounding for electrostatic breakdown prevention**

1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. **Work table grounding**
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).



Caution when Replacing the Optical Pickup :

The traverse has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.

5. Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens. / Wavelength : 780 nm / Maximum output radiation power from pick up : 100 μ W/VDE / Laser radiation from pick up unit is safety level, but be sure the followings:

1. **Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.**
2. **Do not adjust the variable resistor on the pick up unit. It was already adjusted.**
3. **Do not look at the focus lens using optical instruments.**
4. **Recommend not to look at pick up lens for a long time.**

ACHTUNG :

Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt. / Wellenlänge : 780nm / Maximale Strahlungsleistung der Lasereinheit :100 μ W/VDE / Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. **Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.**
2. **Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.**
3. **Nicht mit optischen Instrumenten in die Fokussierlinse blicken.**
4. **Nicht über längere Zeit in die Fokussierlinse blicken.**

ADVARSEL :

I dette a apparat anvendes laser.

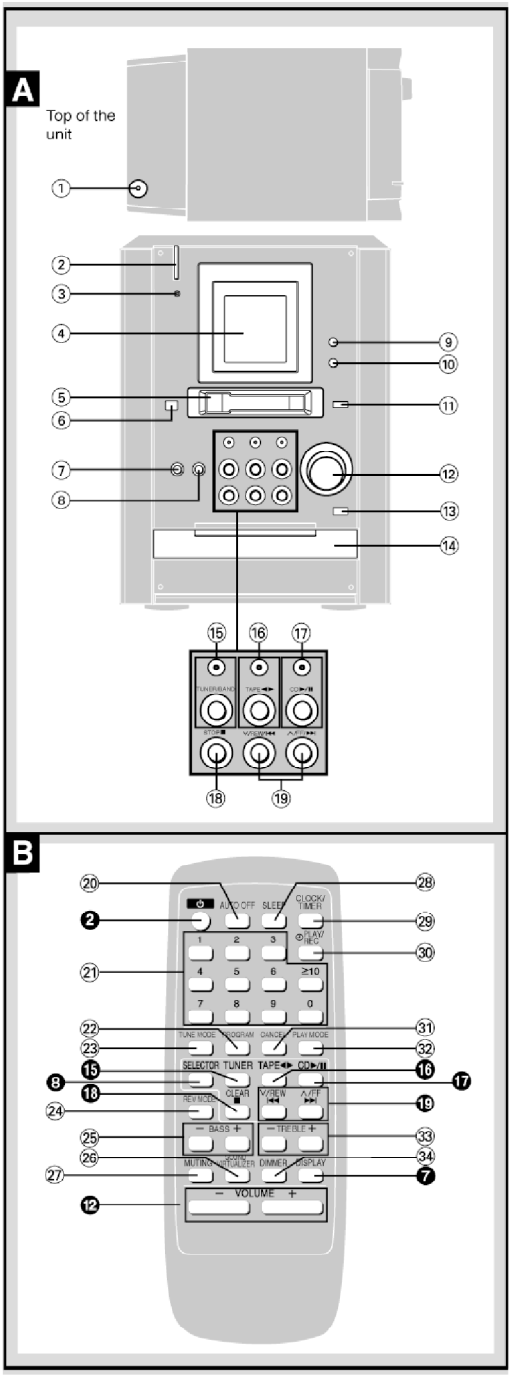
CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THC SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ **Use of Caution Labels**

클래스 1
레이저 제품
DANGER INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
위험 개방시 눈에 보이지 않는 레이저 방출. 광선에의 직접 노출을 피할것.
RQLXS0039
(Inside of product)
(제품 내부)

6. Operation Procedures



Front panel controls

A Main unit

① Headphone jack (PHONES)
② Standby/on switch (POWER ⏻/I)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③ AC supply indicator (AC IN)
This indicator lights when the unit is connected to the AC mains supply.
④ Display
⑤ Cassette slot
⑥ Remote control signal sensor
⑦ Display select/demonstration button (DISPLAY, –DEMO)
⑧ CD, Tape, Tuner, Aux select button (SELECTOR)
⑨ CD edit button (CD EDIT)
⑩ Recording start/pause button (●REC/II)
⑪ Cassette eject button (EJECT ⏏)
⑫ Volume control (VOLUME DOWN, UP)
⑬ CD tray open/close button (OPEN/CLOSE ⏏)
⑭ CD Tray
⑮ Tuner/band select button and indicator (TUNER/BAND)
⑯ Cassette play/direction button and indicator (TAPE ◄►)
⑰ CD play/pause button and indicator (CD ►/II)
⑱ CD, Tape stop button (STOP ■)
⑲ Skip/search/preset channel button (∨/REW/I◄◄ , ∧ /FF/►►I)

B Remote Control

Buttons such as ⑧ function in exactly same way as the buttons on the main unit.
⑳ Auto power off button (AUTO OFF)
㉑ Numeric buttons
㉒ Program button (PROGRAM)
㉓ Tuning mode select button (TUNE MODE)
㉔ Reverse mode select button (REV MODE)
㉕ Bass buttons (–BASS+)
㉖ Sound virtualizer button (SOUND VIRTUALIZER)
㉗ Muting button (MUTING)
㉘ Sleep timer button (SLEEP)
㉙ Clock/timer button (CLOCK/TIMER)
㉚ Play timer/recording timer button (⏲ PLAY/REC)
㉛ Cancel button (CANCEL)
㉜ Play mode select button (PLAY MODE)
㉝ Treble buttons (–TREBLE+)
㉞ Dimmer button (DIMMER)

7. Disassembly and Main Component Replacement Procedures

"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main

components.

2. For reassembly after operation checks or replacement, reverse the respective procedures.Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the Parts No. on the page of "Main Component Replacement Procedures", if necessary.

Contents

- Checking Procedure for each major P.C.B.
- Checking of the Transformer P.C.B.
- Checking for the Main P.C.B.
- Checking for the CD Servo P.C.B.
- Checking for the CD Servo P.C.B.
- Checking for thePower P.C.B and Deck P.C.B.
- Diaassembly and Assembly of the Disc Tray and CD Traverse Unit
- Disassembly of the Disc Tray
- Disassembly of the CD Traveerse Unit
- Main Component Replacement Procedure
- Replacement of the CD Servo P.C.B. and Optical Pick-up Unit

Warning :-

This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

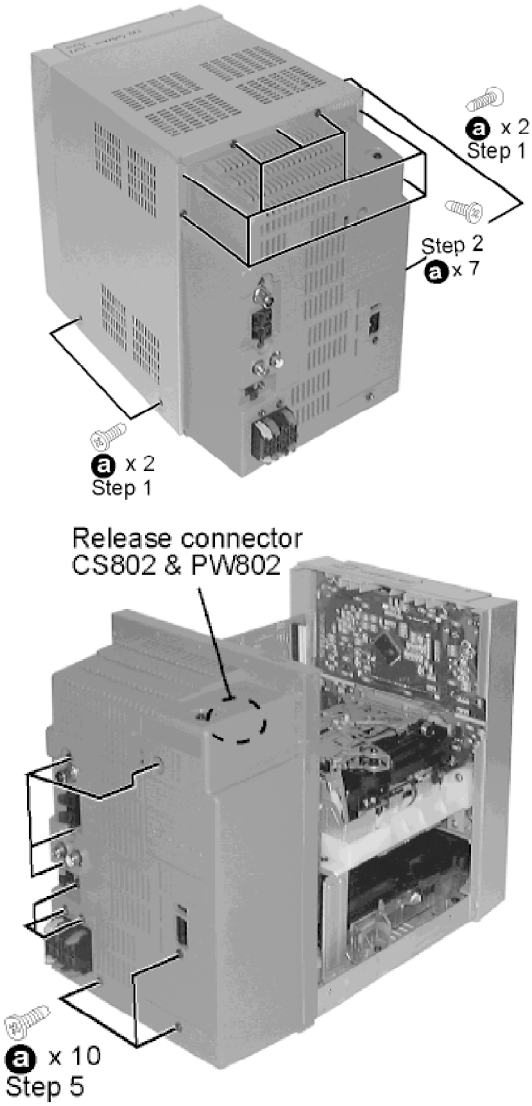
ACHTUNG :-

- Die Lasereinheit nicht zerlegen.
- Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.

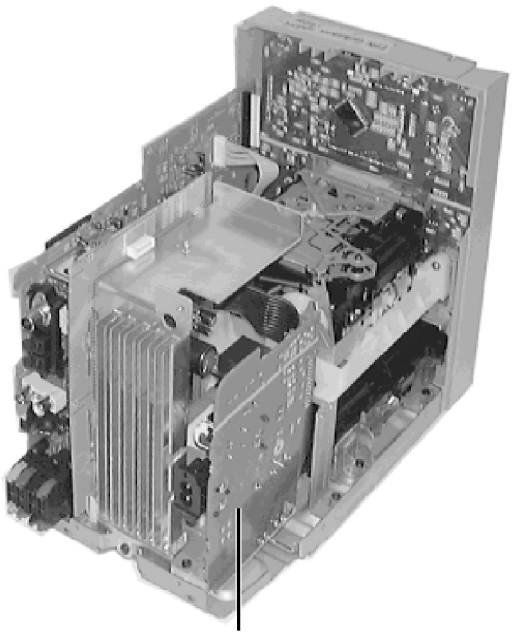
7.1. Disassembly Procedure for Each Major P.C.B. Checking

7.1.1. Checking for the Transformer P.C.B.

Step 1 Remove 2 screws each side.
Step 2 Remove 7 screws from the rear panel.

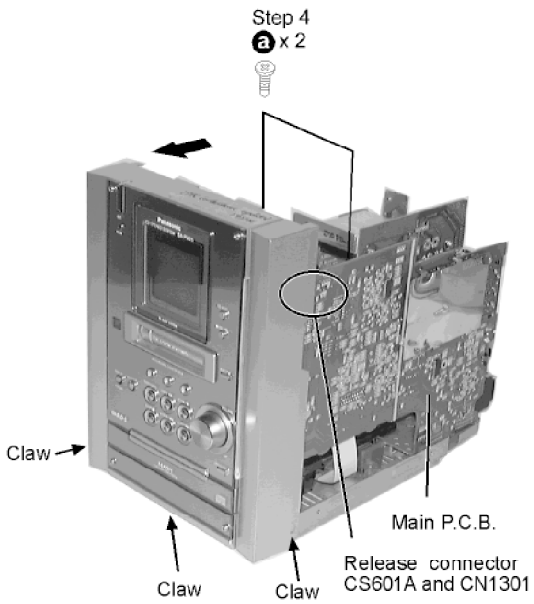


Step 3 Release connector CS802 and PW802.
Step 4 Remove 10 screws.



- Check the Transformer P.C.B. as shown.

7.1.2. Checking for the Main P.C.B.

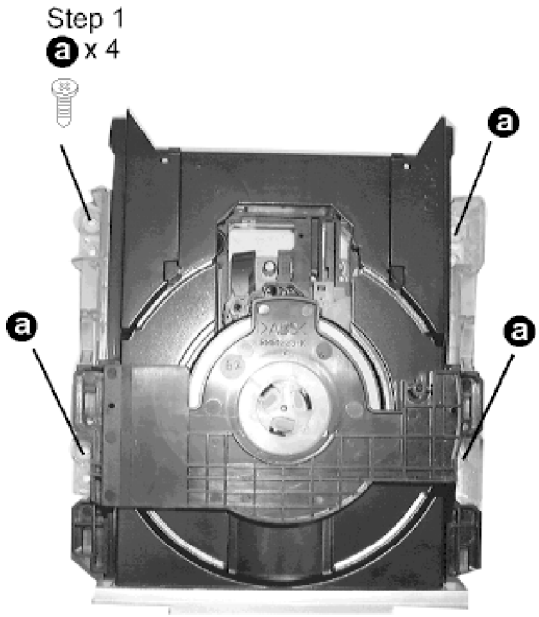


Step 5 Remove 2 screws

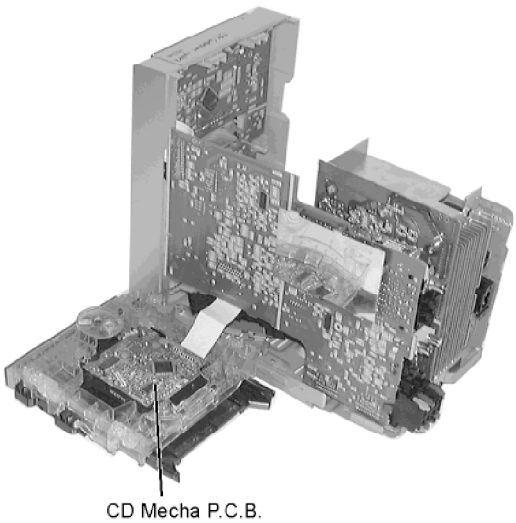
Step 6 Push claws both side and bottom. Release connectors CS601A and CN1301 between Panel P.C.B. and Main P.C.B. Push front panel forward.

- Check the Main P.C.B. as shown.

7.1.3. Checking for the CD Servo P.C.B.

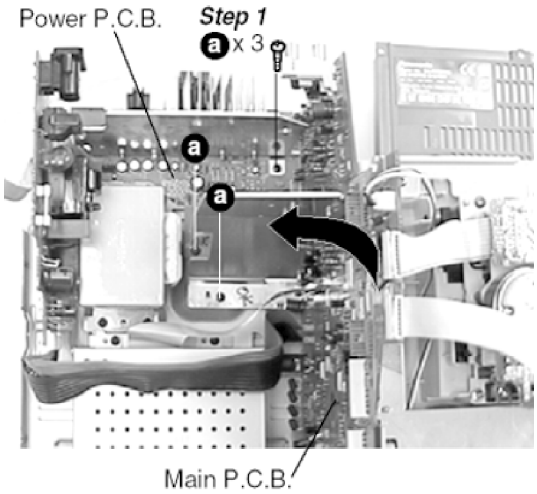


Step 1 Lift up the CD unit and place it as shown in the following figure.

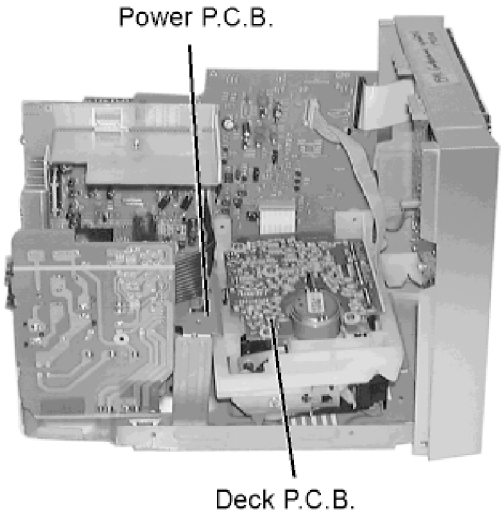


- Check the CD Servo P.C.B. as shown.

7.1.4. Checking for the Power P.C.B and Deck P.C.B..



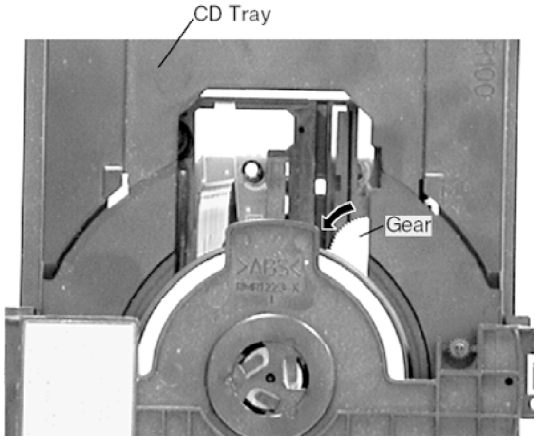
Step 2 Lift up the Main P.C.B. together with the Power P.C.B. and rotate left then place the P.C.B. as shown in the following figure.



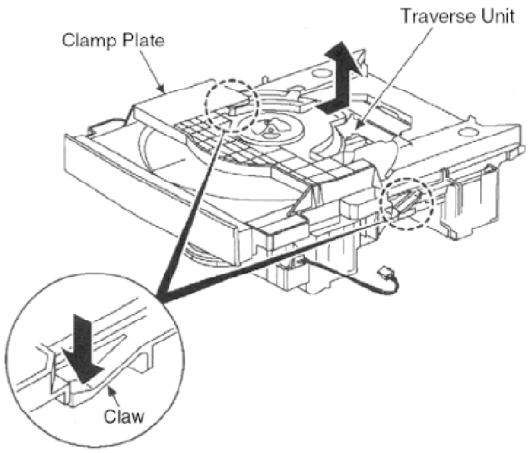
- Check the Power P.C.B. as shown.

7.2. Disassembly and Assembly of the Disc Tray and CD Traverse Unit

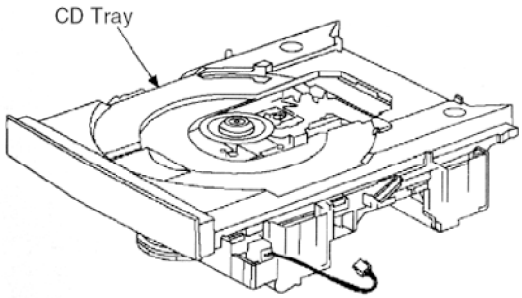
7.2.1. Disassembly of the Disc Tray.



Step 1 Turn the gear counter clock wise until the CD Tray starts to move out.

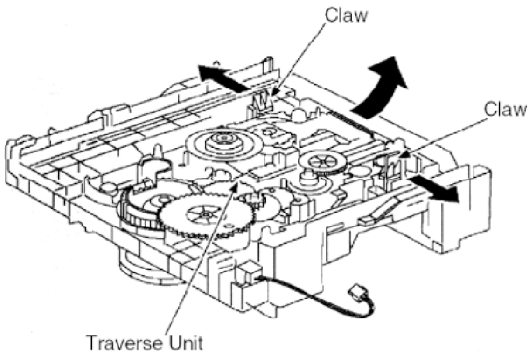


Step 2 Release the 2 claws and remove the clamp plate in the direction of the arrow.

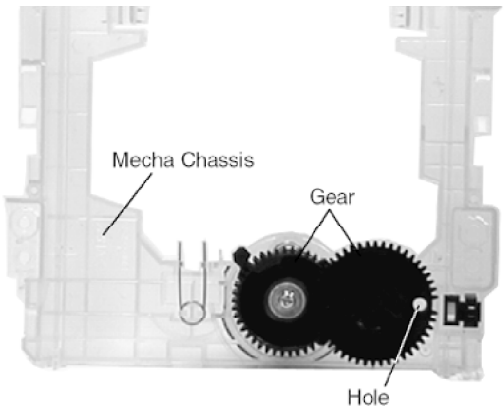


Step 3 Lift up the CD Tray to remove it.

7.2.2. Disassembly of the CD Traverse Unit.



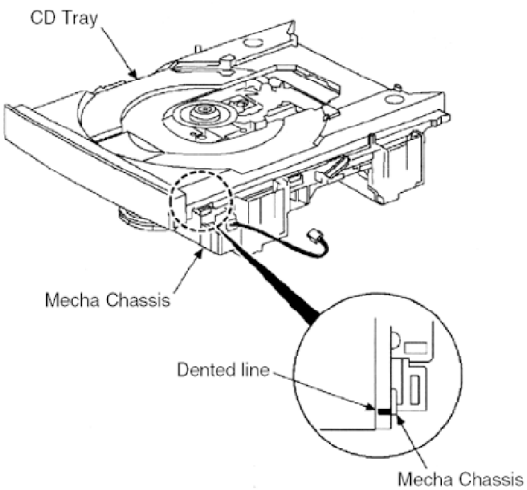
Step 1 Release the 2 claws and remove the CD Traverse Unit in the direction of the arrow.



NOTE :

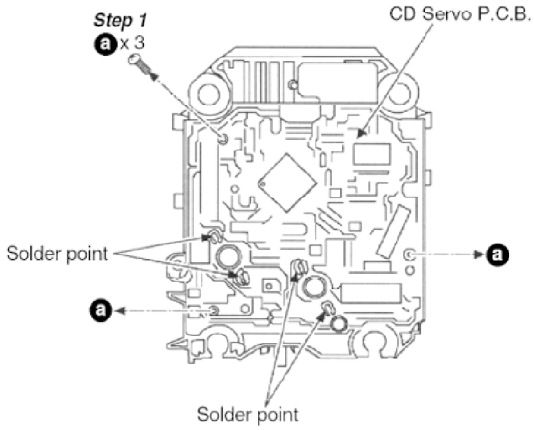
1. **Follow the reverse procedure to replace the CD Traverse Unit and CD Tray.**
2. **Make sure that the 2 gear is in position shown above and the hole on the right gear is align with the hole below it when replacing the CD Traverse Unit and CD Tray.**

NOTE : When replacing the CD Tray, make sure the Dented line is at the position as shown.



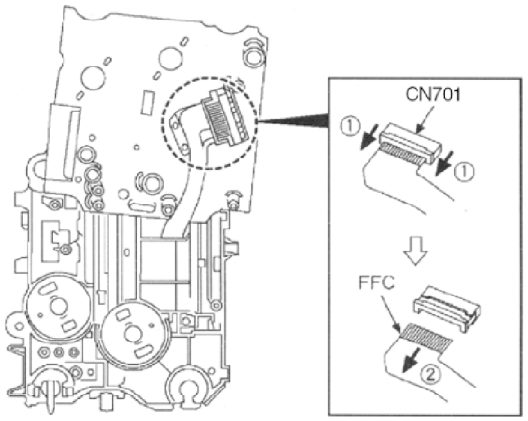
7.3. Main Component Replacement Procedure

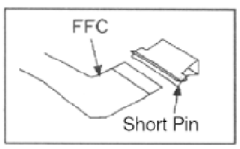
7.3.1. Replacement of the CD Servo P.C.B. and Optical Pick-up Unit.



Step 2 Desolder the 4 legs of 2 motors and flip over the CD Servo P.C.B.
Step 3 Remove the flexible cable at CN701.

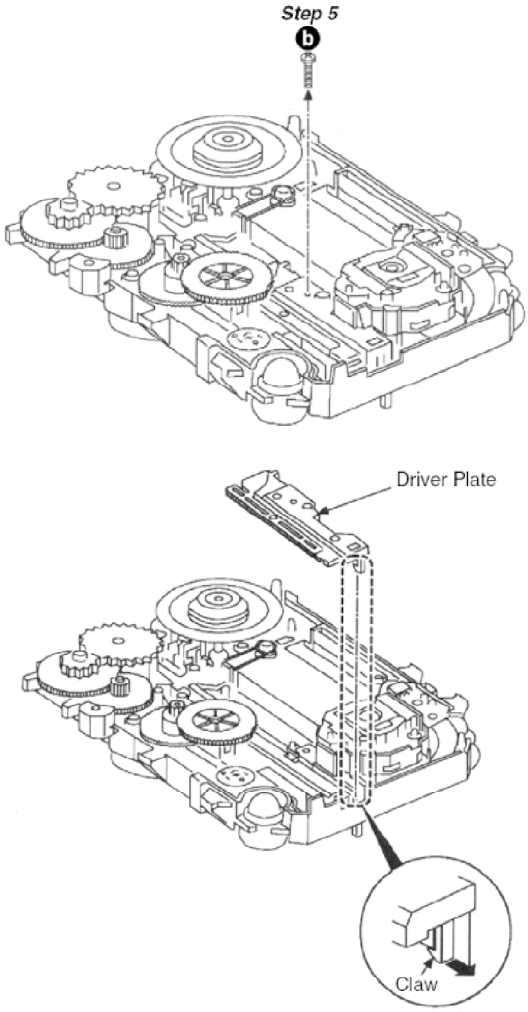
- Removal of the flexible cable / Push the top of the connector in the direction of the arrow 1 and then pull out the flexible cable in the direction of the arrow 2.



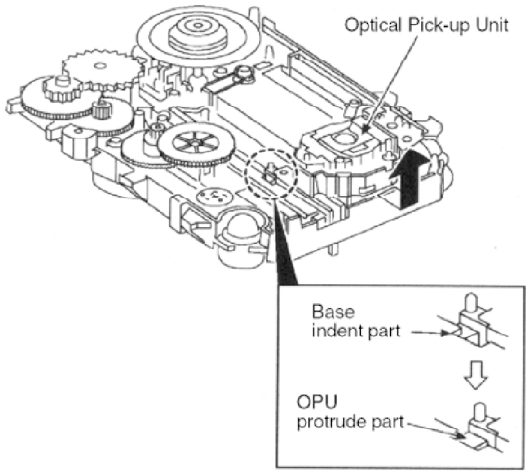


NOTE : Insert a short pin into the flexible cable.

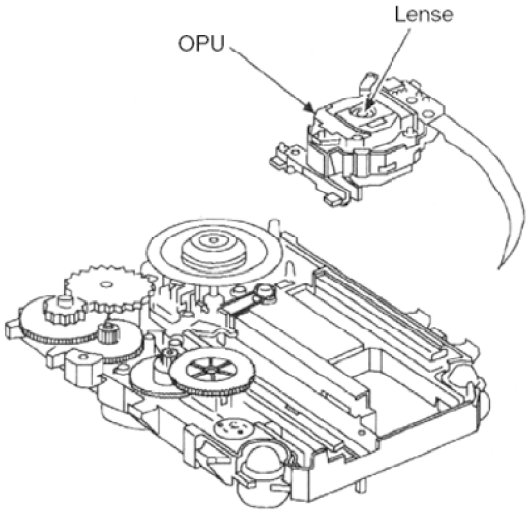
Step 4 Push the lever in and turn the gear clock wise fully.



Step 6 Release the claw and remove the Driver Plate.



Step 7 Slide out the Optical Pick-up Unit from the indent opening.



NOTE : Do not touch the Lense on the OPU.

8. Self-Diagnostic Display Function

This unit is equipped with a self-diagnostic function which, in the event of a malfunction, automatically display a code indication the nature of the malfunction. Use this self-diagnostic function when servicing the unit.

8.1. Entering self-diagnostic Mode

1. **Turn the power on.**
2. **Switch to TAPE mode with no CD, cassette loaded.**
3. **Press and hold the STOP button for at least 2 seconds, and while still pressing the STOP button, press the Forward Skip/Search button for at least 2 seconds. The unit enters Self-Diagnostic Mode and display “T”. Then an error code (e.g. H01) is displayed, if any. In the case of no error, “T” is displayed on FL.**
4. **If more than 1 error exists, the display will sequentially show the respective error codes each time the STOP button is pressed.**

8.2. Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. **Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.**
2. **Press "Forward Skip/Search" (Tape will be stop after 2 seconds).**
3. **Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.**
4. **Press "Reverse Skip/Search" (Tape will be stop after 2 seconds).**

5. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
6. Press "Tape Play" (After TPS function, tape will stop automatically).
7. Press "Tape Record".
8. Press "Stop" to indicate Error code.ve).
   ~ If several problem exist, error code will change each time when "Stop" is pressed.
   (e.g. H01 → H03 → F01 ..... etc.)

8.3. Clearing all error code

1. Press and hold STOP button for 5 seconds.
2. FL indicator shows “CLEAR” for 1 second and change to “T”.

8.4. Cancelling the Self-Diagnostic mode

1. Press the “Power” button to turn off the system. Press the “Power” button again to turn on the system.

8.5. Description of error code

8.5.1. Power Amplifier Failure (F61)

When power amplifier output failure for power supply failure.

8.5.2. Error detection for CD Block

Error Code	Problem Condition	Possible Cause
F15	CD does not function	REST SW detection error. This error occurs when the Optical Pick Up REST SW (S701) i detected within the specified time. (about 8 seconds).
H15	The CD tray closes	CD disc tray detect switch NG. (Check and replace)
F26	CD does not function	Transmission error between CD servo LSI and micon. This error occurs between CD servo LSI and micon. This erro when the POWER is ON for the CD block and an error is dete the transmission has started.
F75	CD power abnormal	Under normal operation (self-diagnostic mode inclusive), che CDRST is H for SELECTOR at CD. If it is not H after 1 sec, it s memorised as an error.

8.5.3. Error detection code for Cassette Mechanism Block

Error Code	Problem Condition	Possible Cause
H01	Cassette deck maifunctions	MODE SW detection error. Faulty contact or short circuit of mechanism mode switch. (
H02	Recording not possible	REC INH SW detection error. Faulty contact or short circuit of REC INH switch. (S974, S97
H03	Playback cannot perform.	HALF SW detection error. Faulty contact or short circuit of HALF switch. (S972)
F01	The tape advances slightly and then stops.	Reel pulse detection error. Faulty reel pulse, faulty hole detect IC. (IC971)
F02	Cassette deck will not perform TPS function	Faulty TPS drive IC. (IC303)

9. Measurement and Adjustment

9.1. Cassette Deck Section

Measurement condition

- Record timer : OFF

- Make sure head, capstan and pressure roller are clean.

- Judgeable room temperature 20 ± 5 °C (68 ± 9 °F)

Measuring instrument

- EVM (Electronic Voltmeter)

- Digital frequency counter

Test tape

- Headazimuth adjustment (8 kHz, -20 dB); QZZCFM

- Tape speed adjustment (3 kHz, -10 dB); QZZCWAT

- Playback gain adjustment (315 Hz, 0 dB); QZZCFM

- Normal reference blank tape; QZZCRA

- CrO2 blank tape; QZZCRX

9.1.1. Head Azimuth Adjustment

Note :

If you wish to readjust the head azimuth, be sure to adjust with adhering the casette tape closely to the mechanism by pushing the center of cassette tape with your finger. (Shown in Fig. 1)

1. Connect the measuring instrument as shown in Fig. 2.

2. Playback the azimuth adjustment portion(8kHz, -20dB) of test tape(QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/Rch are maximized. (Refer to Fig. 3)
Make sure that the difference in the peak level between the left and right channels does not exceed 5dB.

3. Perform the same adjustment in reverse playback mode.
Check of the level difference forward and reverse directions

4. Playback the playback gain adjustment portion(315Hz, 0dB) of test tape(QZZCFM). Check if level difference between forward and reverse direction is within 1.5dB.
5. After the adjustment, apply screwlock to the azimuth adjusting screw.

Fig. 1

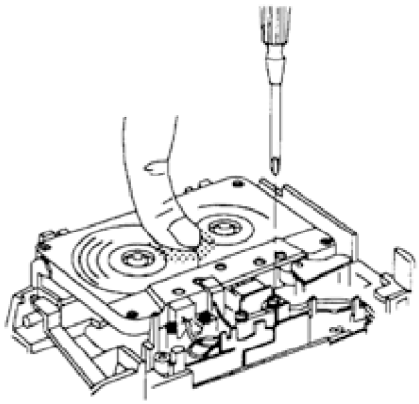


Fig. 2

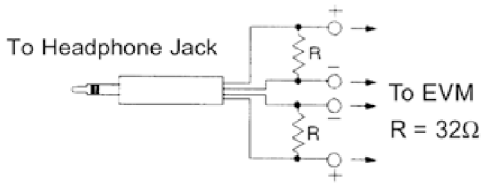
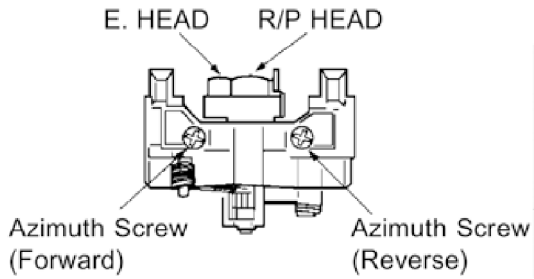


Fig. 3



9.1.2. Tape Speed Adjustment

1. Connect the measuring instrument as shown in Fig. 4.
2. Playback the middle portion of the test tape (QZZCWAT).
3. Adjust motor VR for the output value shown below. (Refer to Fig. 5)
   [Adjustment target : 3000 ± 40Hz]

Fig. 4

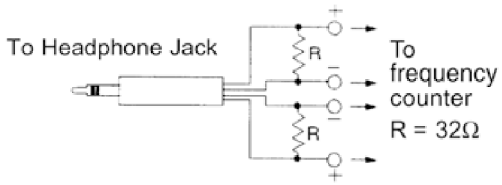
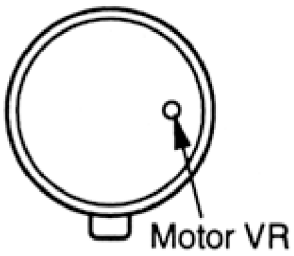


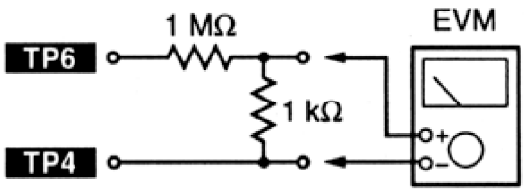
Fig. 5



9.1.3. Bias Vlotage Check

1. Connect the measuring instrument as shown in Fig. 6.
2. Set the unit to “AUX” position.
3. Insert the normal blank tape (QZZCRA) and set the unit to “REC” mode (use “ ● REC/STOP” key).
4. Measure and make sure that the output is within the standad value.
   [Standard value : 16 ± 3mV]

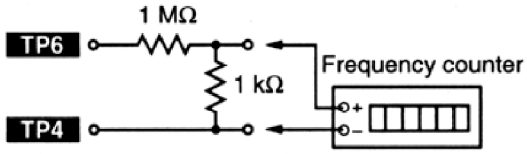
Fig. 6



9.1.4. Bias Frequency Check

1. Connect the measuring instrument as shown in Fig. 7.
2. Set the unit to “AUX” position.
3. Insert the normal blank tape (QZZCRA) and set the unit to “REC” mode (use “ ● REC/STOP” key).
4. Measure and make sure that the output is within the standard value.
   [Standard value : 98 ± 8kHz]

Fig. 7



9.2. Tuner Section

9.2.1. AM-IF Alignment

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 3)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	450kHz 30% Mod. at 400Hz	Point of non-interference. (on about 600kHz)	Headphones Jack (32 Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	Z2 (AM IFT)	Ad maxi

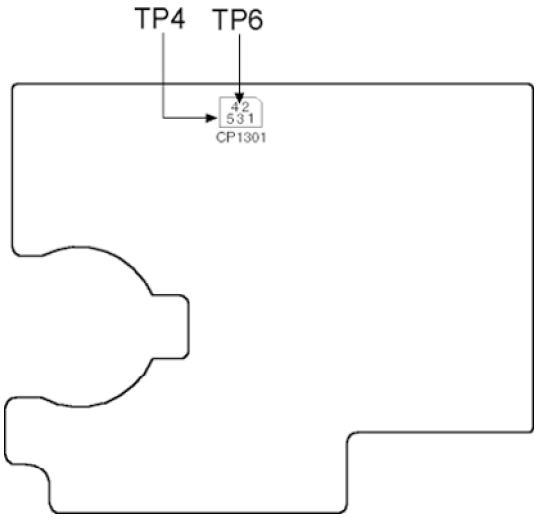
9.2.2. FM-RF Alignment

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 3)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	522kHz	Tuning capacitor fully closed	Headphones Jack (32 Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	Z101 (AM OSC Coil)	Ad maxi
	603kHz	Tuning to signal		Z101 (AM ANT Coil)	

9.3. Alignment Points

<Cassette Deck>

Fig. 8



<Tuner>

Fig. 9

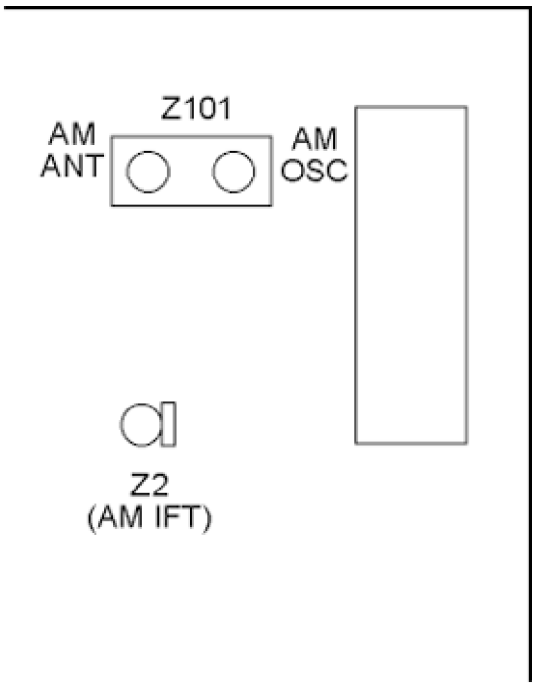
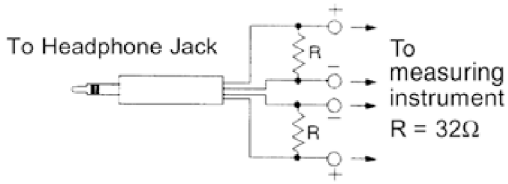


Fig. 10



10. Illustration of IC's, Transistors and Diodes

11. Terminal Function of IC's

11.1. IC1 (LA1833NMNTLM) : IF & MPX IC (TUNER)

Pin No.	Mark	I/O	Function
1	FM IF In	—	D signal det. capacitor connection terminal
2	AM MIX out	O	Laser amp output terminal
3	REG	I	Photo diode light quantity det. input terminal
4	AM IF In	I	Laser amp reverse input terminal
5	GND	I	APC amp criterion voltage input terminal
6	SD	I	Temperature sensor amp input terminal
7	ST	O	Temperature sensor amp output terminal
8	FM DET	O	ADIP signal output terminal
9	Vcc	I	Tracking error offset adjustment terminal
10	STRQ	I	Tracking ballance adjustment terminal
11	FM/AM	O	Tracking error signal output terminal
12	Mono	I	Track cross input terminal
13	Lch	I	Tracking gain adjustment input terminal
14	Rch	O	Lens position signal output terminal
15	PILOT OUT	I	APP compensation signal gain adjustment terminal
16	MPX IN	O	Focus error signal output terminal
17	PILOT IN	I	AS gain adjustment terminal
18	DET OUT	I	Focus ballance adjustment terminal
19	AM OUT	O	AS/3TMON signal output terminal
20	AGC	I	3T envelope det. capacitor connection terminal
21	AM RF IN	O	BDO/Track cross signal output terminal
22	AFC	O	BDO detection capacitor connection terminal

Pin No.	Mark	I/O	Function
23	OSC	O	Off track detection signal output terminal
24	OSC OUT	—	GND terminal

11.2. IC2 (LC72131MDTRM) : PLL IC (TUNER)

Pin No.	Mark	I/O	Function
1	Xin	—	3.3V external transistor control terminal (Not used, open)
2	CE	—	3.3V regular output monitor terminal (Not used, connected to GND)
3	DI	—	Not used, open
4	CL	O	Op-amp output terminal
5	DO	O	Op-amp invert output terminal
6	AM	O	Op-amp non-invert output terminal (Not used, connected to GND)
7	LW	I	Power supply terminal
8	SDC	O	1/2 PVcc output terminal 1 (Connected to GND through capacitor)
9	STRQ	I	Power supply terminal for driver
10	FM	—	GND terminal
11	IFIN	O	Tracking coil driver output terminal
12	MONO	O	Tracking coil driver output terminal
13	AMIN	O	Focus coil driver output terminal
14	FMIN	O	Focus coil driver output terminal
15	VDD	O	Traverse motor drive output terminal
16	PD	O	Traverse motor drive output terminal
17	AIN	O	Spindle motor drive output terminal
18	AOUT	O	Spindle motor drive output terminal
19	VSS	—	GND terminal
20	XOUT	I	Power supply terminal

11.3. IC701 (AN8885SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDE	I	Tracking signal input 1
2	PDF	I	Tracking signal input 2
3	VCC	I	Power supply
4	PDA	I	Focus signal input terminal 1
5	PDB	I	Focus signal input terminal 2
6	LPD	I	APC amp input
7	LD	O	APC amp output
8	RF	O	RFsumming output
9	RFIN	I	Detector's input
10	CSBRT	I	Capacitor for OFTR connection
11	CEA	I	Capacitor for HPF amp connection
12	BDO	O	BDO output ("H" : drop out)
13	LDON	I	APC control
14	GND	—	Ground
15	/RFDET	O	NRFDET output ("L" : detection)
16	PDOWN	O	Power-down input
17	OFTR	O	OFTR output
18	NC	O	N.C.
19	ENV	O	3T-ENV output
20	NC	I	N.C.
21	NC	I	N.C.
22	TEN	I	TE amp input
23	TEOUT	O	TE amp output
24	FEOUT	O	FE amp output
25	FEN	I	FE amp input
26	VREF	O	Reference voltage output
27	TBAL	I	Tracking balance control
28	FBAL	I	Focus balance control

11.4. IC702 (MN662790RSC) SERVO PROCESSOR / DIGITAL SIGNAL PROCESSOR / DIGITAL FILTER / D/A CONVERTER

Pin No.	Mark	I/O	Function
1	BCLK	O	Bit Clock Output for Serial Data
2	LRCK	O	L/P Clock Signal Output
3	SRDATA	O	Serial Data Output
4	DVDD1	I	Power Supply Input (for Digital Circuit)
5	DVSS1	I	Ground (for Digital Circuit)
6	TX	O	Digital Audio Interface Signal Output (Latches Data at first Transistion)
7	MCLK	I	Microprocessor Command Clock Signal Input
8	MDATA	I	Microprocessor Command Data Signal Input
9	MLD	I	Microprocessor Command Load Signal Input
10	SENSE	I	Sense Signal Output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG) (Not Used, Open)
11	/FLOCK	O	Focus Servo Feeding Signal Output (“L”: Feed)
12	/TLOCK	O	Tracking Servo Feeding Signal Output (“L”:Feed)
13	BLKCK	O	Sub-Code Block Clocl Signal Output (fBLKCK = 75Hz during Normal Playback)
14	SQCK	I	External Clock Signal Input for Sub-Code Q Resistor)
15	SUBQ	O	Sub-Code Q Code Output
16	DMUTE	I	Muting Input (“H”: Mute)
17	STAT	O	Status Signal Output (CRC, CUE, CLVS, TTSTVP, FCLV, SQCK)
18	/RST	I	Reset Signal Input

Pin No.	Mark	I/O	Function
19	SMCK	O	1/2 - Divided Clock Signal of Crystal Oscillating at MSEL= “H” (fSMCK=8.4672 MHz) 1/4 - Divided Clock Signal of Crystal Oscillating at MSEL= “L” (fSMCK=4.2336 MHz)
20	CSEL	I	Frequency Selection Terminal H= 33.8688 MHz; L= 16.9344 MHz
21	TRV	O	Traverse Forced Feed Output
22	TVD	O	Traverse Drive Output
23	PC	O	Traverse (Spindle) Motor ON Signal Output (“L”:ON)
24	ECM	O	Spindle Motor Drive Signal Output (Forced Mode Output)
25	ECS	O	Spindle Motor Drive Signal Output. (Servo Error Signal Output)
26	KICK	O	Kick Pulse Output
27	TRD	O	Tracking Drive Output
28	FOD	O	Focus Drive Output
29	VREF	I	D/A (Drive) Output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference Voltage Input
30	FBAL	O	Focus Error Signal Input (Analog Input)
31	TBAL	O	Tracking Balance Adjustment Output
32	FE	I	Focus Error Signal Input (Analog Input)
33	TE	I	Tracking Error Signal Input (Analog Input)
34	RFENV	I	RF Envelope Signal Input
35	VDET	I	Vibration Detection Signal Input (“H”: Detect)

Pin No.	Mark	I/O	Function
36	OFT	I	Off-Track Signal Input ("H": Off Track)
37	TRCRS	I	Track Cross Signal Input)
38	/RFDET	I	RF Detection Signal Input ("L": Detect)
39	BDO	I	Dropout Signal Input ("H": Dropout)
40	LDON	O	Laser on Signal Output ("H": ON)
41	PLLF2	I/O	PLL Loop Filter Characteristic Switching Terminal
42	TOFS/ DSLF2	O	Tracking Offset Alignment Output/ DSL Balance Output (DA Output)
43	WVEL	O	Double Speed Status Signal Output ("H":DS)
44	ARF	I	RF Signal Input
45	IREF	I	Reference Current Input
46	DRF	I	DSL Bias Terminal
47	DSLF	I/O	DSL Loop Filter
48	PLLF	I/O	PLL Loop Filter
49	VCOF	I/O	VCO Loop Filter Terminal
50	AVDD2	I	Power Supply Input (For Analog Circuit)
51	AVSS2	I	GND (For Analog Circuit)
52	EFM	O	EFM Signal Output (Not Used, Open)
53	PCK	O	PLL Extraction Clock Output (Not Used, Open) (fPCK= 4.3218 MHz during Normal Playback)
54	VCOF2	I/O	VCO loop Filter for 33.8688 MHz Conversion Terminal for 16.9344 Mhz Crystal mode, Must use other Circuit)

Pin No.	Mark	I/O	Function
55	SUBC	O	Sub-Code Serial Data Output (Not Used, Open)
56	SBCK	I	Clock Input for Sub-Code Serial Data)
57	VSS	I	GND
58	X1 IN	I	Crystal Oscillating Circuit Input (f= 16.9344 MHz)
59	X2 OUT	O	Crystal Oscillating Circuit Input (f= 16.9344 MHz)
60	VDD	I	Power Supply Input (For Oscillating Circuit)
61	BYTCK	O	Byte Clock Output (Not Used, Open)
62	/CLDCK	O	Sub-Code Frame Clock Signal Output (fCLDCK= 7.35 kHz During Normal Playback)
63	FCLK	O	Crystal Frame Clock Signal Output) (fCLDCK= 7.35 kHz)
64	IPFLAG	O	Interpolation Flag Output (“H”: Interpolation) (Not Used, Open)
65	FLAG	O	Flag Output (Not Ised, Open)
66	CLVS	O	Spindle Servo Phase Synchronizing Signal Output (“H”: CLV, “L”: Rough Servo) (Not used, Open)
67	CRC	O	Sub-Code CRC Checked Output (“H”: OK, “L” NG) (Not Used, Open)
68	DEMPH	O	De-Emphasis DN Signal Output (“H”:ON)
69	RESY	O	Frame Re-synchronizing Signal Output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test Input

Pin No.	Mark	I/O	Function
72	AVDD1	I	Power Supply Input (For Analog Circuit)
73	OUTL	O	Left Channel Audio Signal Output
74	AVSS1	I	GND
75	OUTR	O	Right Signal Audio Signal Output
76	RSEL	I	RF Signal Polarity Assignment Input (at “H” level, RSEL= “H”, at “L” SEL= “L”)
77	IOVDD	I	5V Supply
78	PSEL	I	Test terminal (Connected to GND)
79	MSEL	I	SMCK Oscillating Frequency Designation Input (“L”: 4.2336 MHz, “H” 8.4672MHz)
80	SSEL	I	SUBQ Output Mode Select (“H”: Q-Code Buffer Mode)

11.5. IC703 (BA5948FPE2) FOCUS COIL / TRACKING COIL / TRAVERSE MOTOR / SPINDLE MOTOR DRIVE

Pin No.	Mark	I/O	Function
1	IN2	I	Motor Driver 92) Input
2	PC2	I	Turntable Motor Drive Signal (“L”:ON)
3	IN1	I	Motor Driver (1) Input
4	PC1	—	Traverse Motor Drive Signal (“L”:ON)
5	N.C.	—	No connection
6	N.C.	—	No connection
7	N.C.	—	No connection
8	N.C.	—	No connection
9	PGND1	—	Ground Conenction (1) for Driver
10	PVCC1	I	Power Supply (1) for Driver

Pin No.	Mark	I/O	Function
11	D1-	O	Motor Driver (1) reverse - action output
12	D1+	O	Motor Driver (1) forward - action output
13	D2-	O	Motor Driver (2) reverse - action output
14	D2+	O	Motor Driver (1) forward - action output
15	D3-	O	Motor Driver (3) reverse - action output
16	D3-	O	Motor Driver (3) forward - action output
17	D4-	O	Motor Driver (4) reverse - action output
18	D4+	O	Motor Driver (4) forward - action output
19	PVCC2	I	Power Supply (2) for Driver
20	PGND2	—	Ground Connection(2) for Driver
21	N.C.	NC	No Connection
22	N.C.	NC	No Connection
23	N.C.	NC	No Connection
24	N.C.	NC	No Connection
25	VCC	I	Power Supply Terminal
26	VREF	I	Reference Voltage Input
27	IN4	I	Motor Driver (4) Input
28	IN3	I	Motor Driver (3) Input

11.6. IC601 (M38258MCM088) MICRO COMPUTER

Pin No.	Mark	I/O	Function
1	N.C.	-	Open
2	VL1	-	LCD Bias
3	MK_IN1	I	Tape mecha state input (HALF/RECINH_R/ MODE)
4	MK_IN2	I	Tape mecha state input (PHOTO/TPS / LOADING_SW)
5	V_JOG	I	Volume jog A_D detection input
6	PWRDET	I	Power supply detect input
7	REG1	I	region setting input
8	LEDS	O	CD function LED
9	KEY2	I	Key input
10	KEY1	I	Key input
11	TMUTE	O	Tuner mute output
12	MLD/ PLLCE	O	CD command load output/Tuner PLL chip enable
13	MCLK / PLLCK	O	CD command clock output/Tuner PLL clock output
14	MDATA / PLLDA	O	CD command data output/Tuner PLL data output
15	PLL_DO/ ST	I	Tuner IF data/stereo input
16	LED2	O	tape function LED
17	SYNC	I	AC failure detect input
18	RMT	I	Remote control input
19	LED1	O	Tuner function LED
20	SQCK	O	CD subcode clock output
21	SD	I/O	Tuner signal detect input
22	SUBQ	I	CD sucode data input (Inverted)
23	BLKCK	I	CD block clock input (Inverted)
24	RESTSW	I	CD limit SW input for the most inner point
25	CDRST	O	CD reset output
26	STATUS	I	CD signal processor status input (Inverted)
27	DMT	O	Deck mute output

Pin No.	Mark	I/O	Function
28	BP	O	Deck record bias beatproof output
29	REC_H	O	Deck record control output
30	Dimmer	O	LEDs dimmer control output
31	PCONT2	O	Secondary power supply control output
32	PCONT1	O	Primary relay control output (DEMO = H)
33	MUTEA	O	Audio mute output
34	CR02	I	Chrome detect input
35	RESET	-	Reset input
36	XCIN	-	32.768 kHz sub clock
37	XCOUT	-	32.768 kHz sub clock
38	XIN	-	8 MHz main clock
39	XOUT	-	8 MHz main clock
40	VSS	-	Ground (0V)
41	MBP1	O	MPU beat proof output 1
42	MBP2	O	MPU beat proof output 2
43	CD_CLOSE	O	CR100 loading control output
44	CD_OPEN	O	CR100 loading control output
45	RDSCLK	O	RDS IC control clock output
46	RDSDATA	I	RDS IC control data output
47	ASP_CLK	O	ASP control clock output
48	ASP_DATA /EDATA	O	ASP control data output EEPROM data output
49	ASP_LATCH	O	ASP control latch output
50	CDOPN_SW	I	Cd open switch detect input
51	SEG39/ ECLK	O	Segment output (Not used)/ EEPROM clock output
52	SEG38/ ECS	O	Segment output (Not used)/ EEPROM clock output
53-90	SEG37-0	O	Segment output
91	VCC	-	Power supply (+5V)
92	VREF	-	Reference for A-D
93	AVSS	-	Analog ground (0V)
94	COM3	-	LCD common 3 output

Pin No.	Mark	I/O	Function
95	COM2	-	LCD common 2 output
96	COM1	-	LCD common 1 output
97	COM0	-	LCD common 0 output
98	VL3	-	LCD bias
99	VL2	-	LCD bias
100	N.C.	-	Open

12. Block Diagram

13. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

S701

Reset switch

S780

Open switch

S971

Mode detect switch

S972

Leaf switch

S973

Leaf switch

S974

Leaf switch

S975

Leaf switch

S1301

Deck Mode switch

SW801

Tape Eject switch

SW802

Tape Rec/Pause switch

SW803

CD Edit switch

SW804
Power switch

SW805
Display/RDS switch

SW806
Selector switch

SW807
Tuner Band switch

SW808
Stop switch

SW809
Rew switch

SW810
Tape switch

SW811
CD FF/Pause switch

SW812
FF switch

SW813
Open/Close/Step switch

VR801
Encorded Volume VR

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark
: Playback

<< >>
: Rec

(( ))
: CD

< >

: FM

( )

: AM

- Importance safety notice :

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

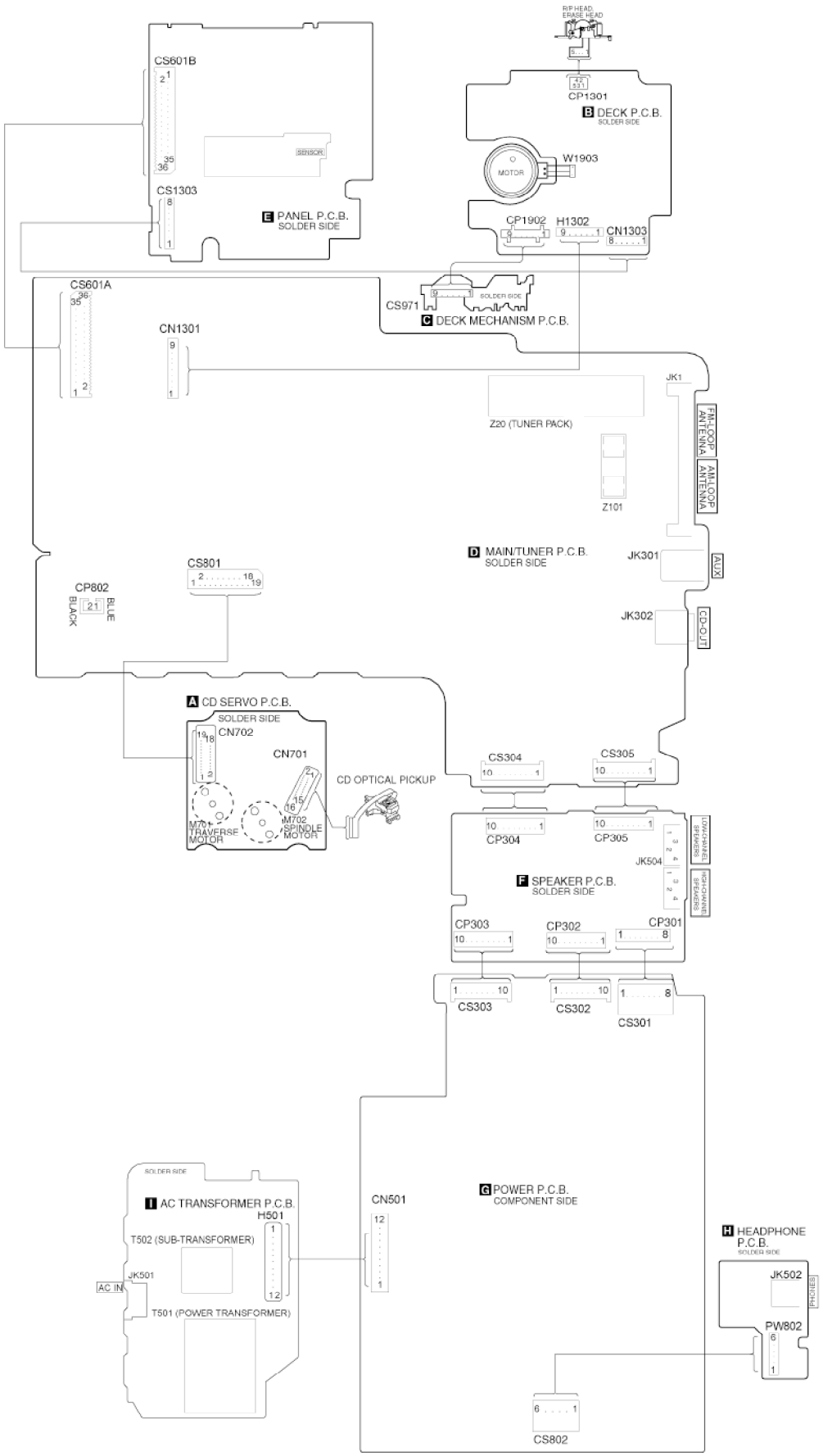
Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

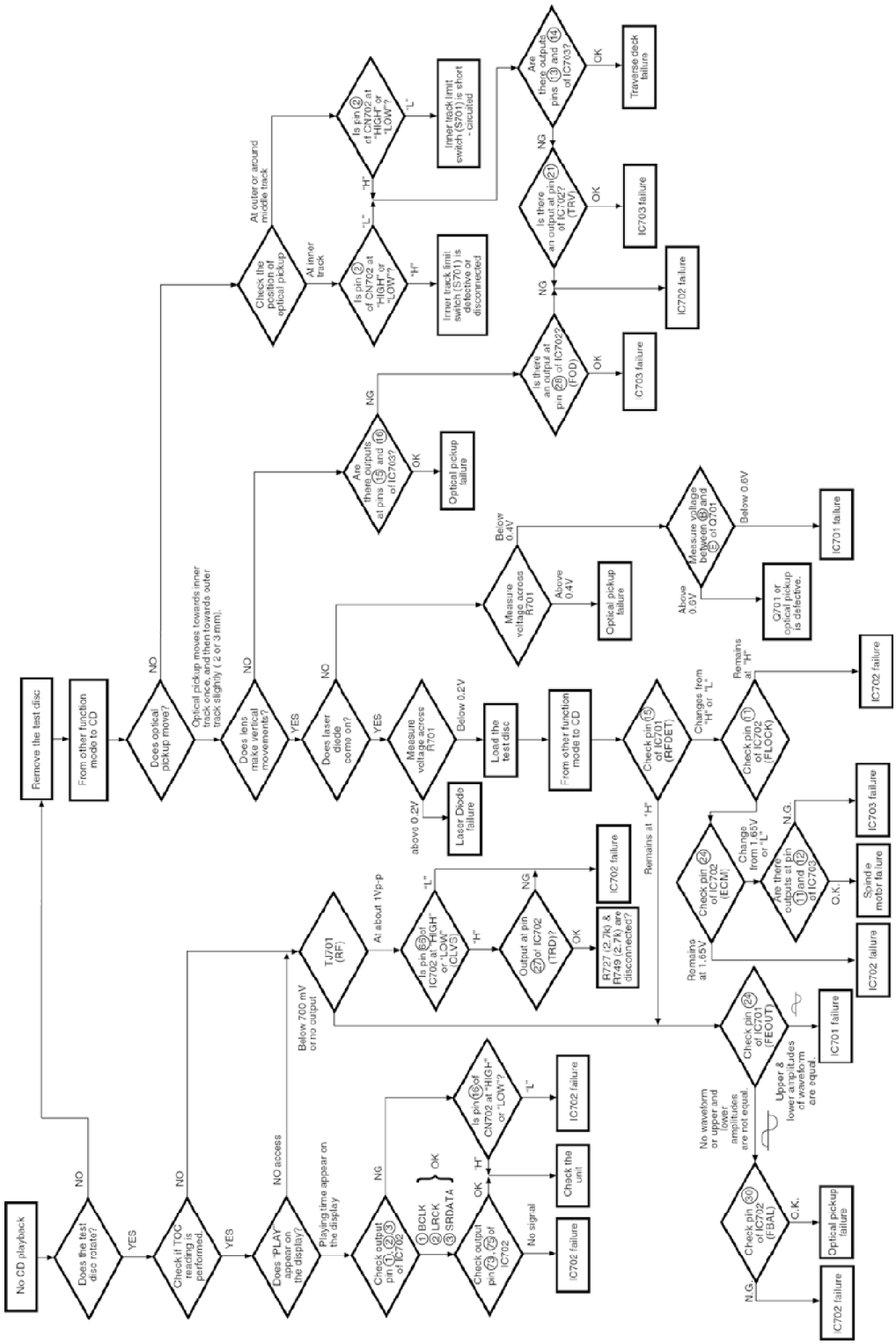
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

14. Printed Circuit Board

15. Wiring Connection Diagram


R/P HEAD
ERASE HEAD
CP1301
B DECK P.C.B.
SOLDER SIDE
W1903
MOTOR
CP1902
H1302
CN1303
CS601B
SENSOR
CS1303
E PANEL P.C.B.
SOLDER SIDE
CS601A
CS971
SOLDER SIDE
C DECK MECHANISM P.C.B.
CN1301
JK1
Z20 (TUNER PACK)
Z101
FM LOOP ANTENNA
AM LOOP ANTENNA
D MAIN/TUNER P.C.B.
SOLDER SIDE
JK301
AUX
JK302
CD-OUT
CS801
CP802
BLACK
BLUE
A CD SERVO P.C.B.
SOLDER SIDE
CN702
CN701
CD OPTICAL PICKUP
M701 TRAVERSE MOTOR
M702 SPINDLE MOTOR
CS304
CS305
CP304
CP305
JK504
F SPEAKER P.C.B.
SOLDER SIDE
LOW-PHANEL SPEAKERS
HIGH-PHANEL SPEAKERS
CP303
CP302
CP301
CS303
CS302
CS301
SOLDER SIDE
I AC TRANSFORMER P.C.B.
H501
T502 (SUB-TRANSFORMER)
JK501
AC IN
T501 (POWER TRANSFORMER)
CN501
G POWER P.C.B.
COMPONENT SIDE
H HEADPHONE P.C.B.
SOLDER SIDE
JK502
PHONES
PW802
CS802

16. Troubleshooting Guide



17. Parts Location and Replacement Parts List

Notes:

- Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".
ACTUNG:

- Die Lasereinheit nicht zerlegen.

- Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by MESA.

- The "(SF)" mark denotes the standard part.

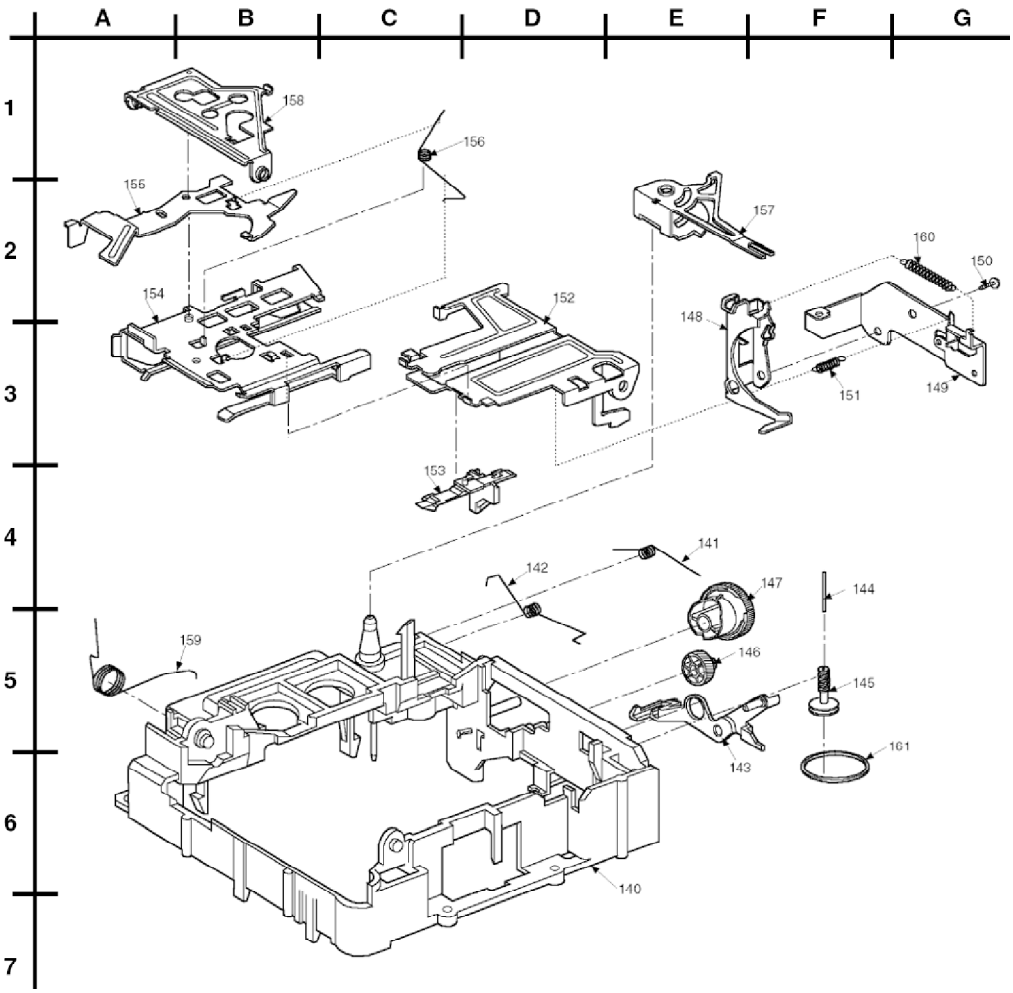
- Remote Control Unit: Supply period for three years from terminal of production.

- Reference for O/I book languages are as follows:

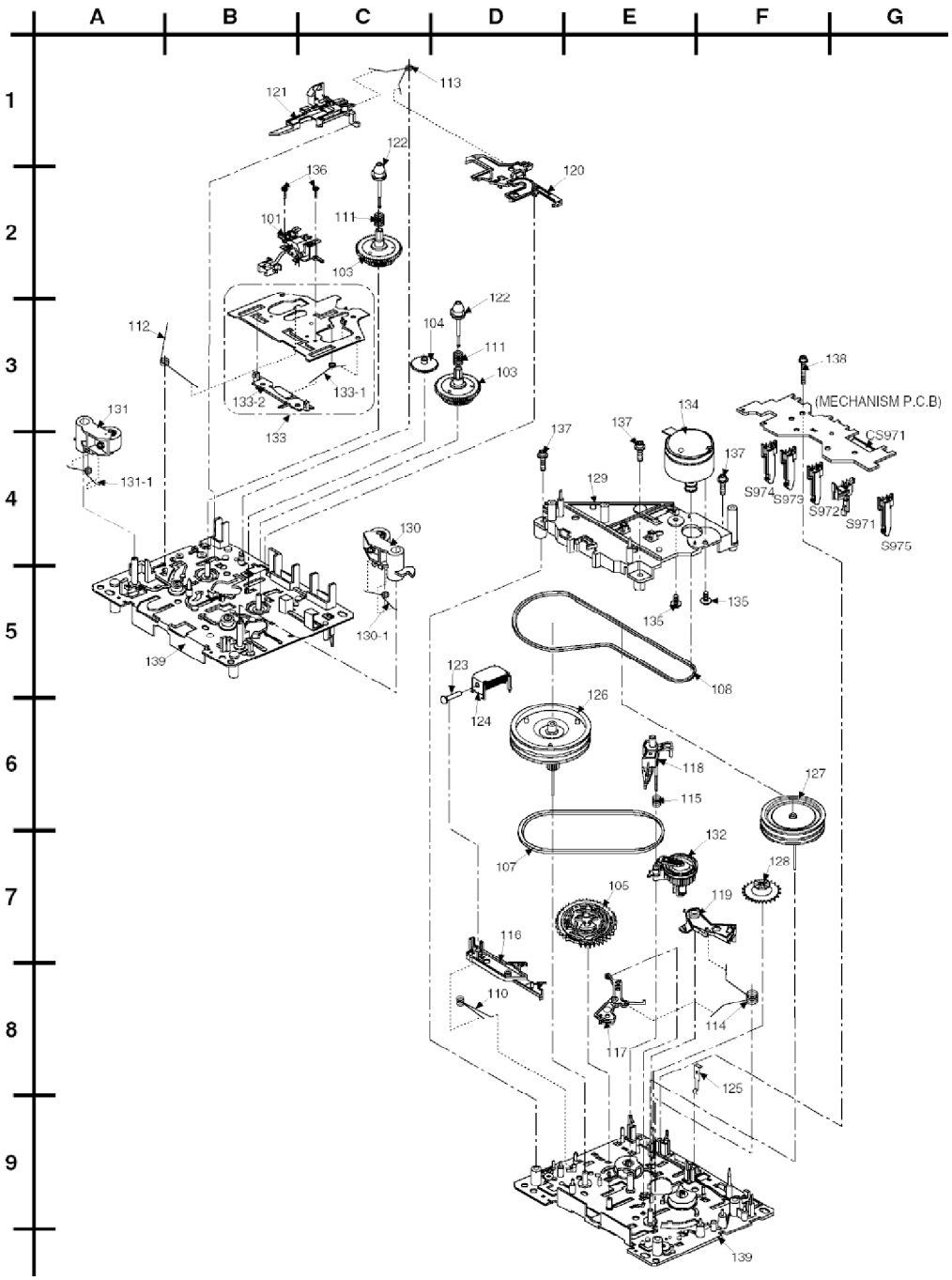
Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Traditio Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplifie Chinese

17.1. Deck Mechanism

17.1.1. Deck Loading Mechanism Parts Location



17.1.2. Deck Mechanism Part Location (RAA4109-1S)



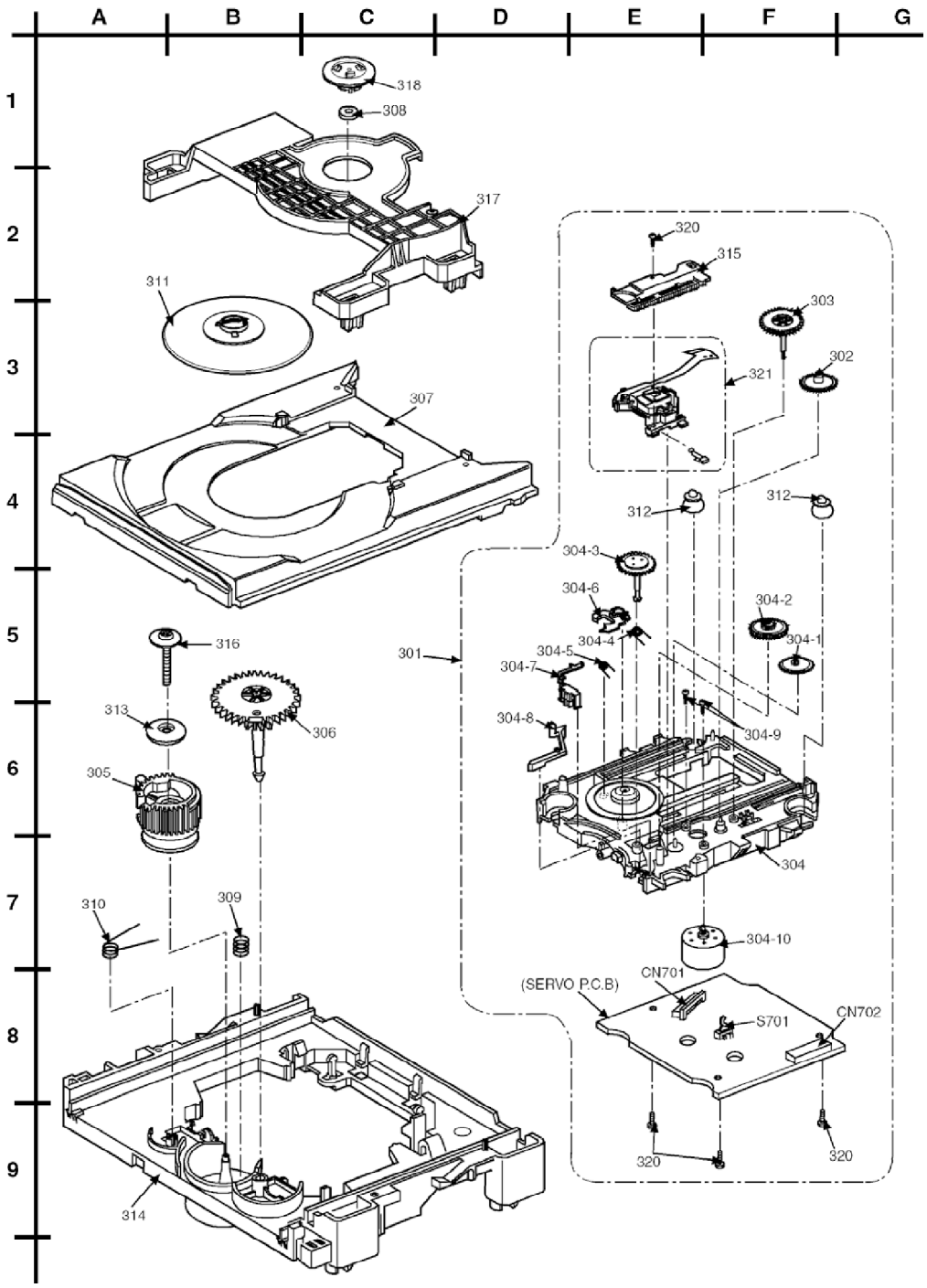
17.1.3. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0059	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-1	CAPSTAN BELT 'A'	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SP	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL 'F' ASS'Y	[M]
127	RXF0050	FLYWHEEL 'R' ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-J	SUB CHASSIS	[M]
130	RXL0124	PINCH ARM 'F' ASS'Y	[M]
130-1	RMB0401	PINCH ARM SPRING 'F'	[M]
131	RXL0125	PINCH ARM 'R' ASS'Y	[M]
131-1	RMB0402	PINCH ARM SPRING 'R'	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412	HEAD PANEL ASS'Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0098	CAP MOTOR ASS'Y	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJSTR280PP	MAIN CHASSIS ASS'Y	[M]
140	RMK0473	HOUSING	[M]
141	RME0334	TRIGGER LEVER SPRING	[M]
142	RME0328	TRIGGER SPRING	[M]
143	RML0597	TRIGGER LEVER	[M]
144	RMU0083	WORM SHAFT	[M]
145	RDG0507	WORM PULLEY	[M]
146	RDG0508	WORM WHEEL	[M]
147	RDK0036	CAM GEAR	[M]
148	RML0600	DRIVE LEVER	[M]
149	RMA1413	HOLDER PLATE	[M]
150	RHD20048	SCREW	[M]
151	RMB0663	UD ARM SPRING	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
152	RML0599	UD ARM	[M]
153	RMQ1002	CASS HOOK	[M]
154	RMA1412	CASS HOLDER	[M]
155	RML0598	OPEN LEVER	[M]
156	RME0329	OPEN LEVER SPRING	[M]
157	RML0601	SLIDE LEVER	[M]
158	RMA1420	CT PUSH PLATE	[M]
159	RME0333	PUSH SPRING	[M]
160	RMB0664	DRIVE LEVER SPRING	[M]
161	RDV0066	BELT	[M]

17.2. CD Loading Mechanism

17.2.1. CD Loading Mechanism Parts Location

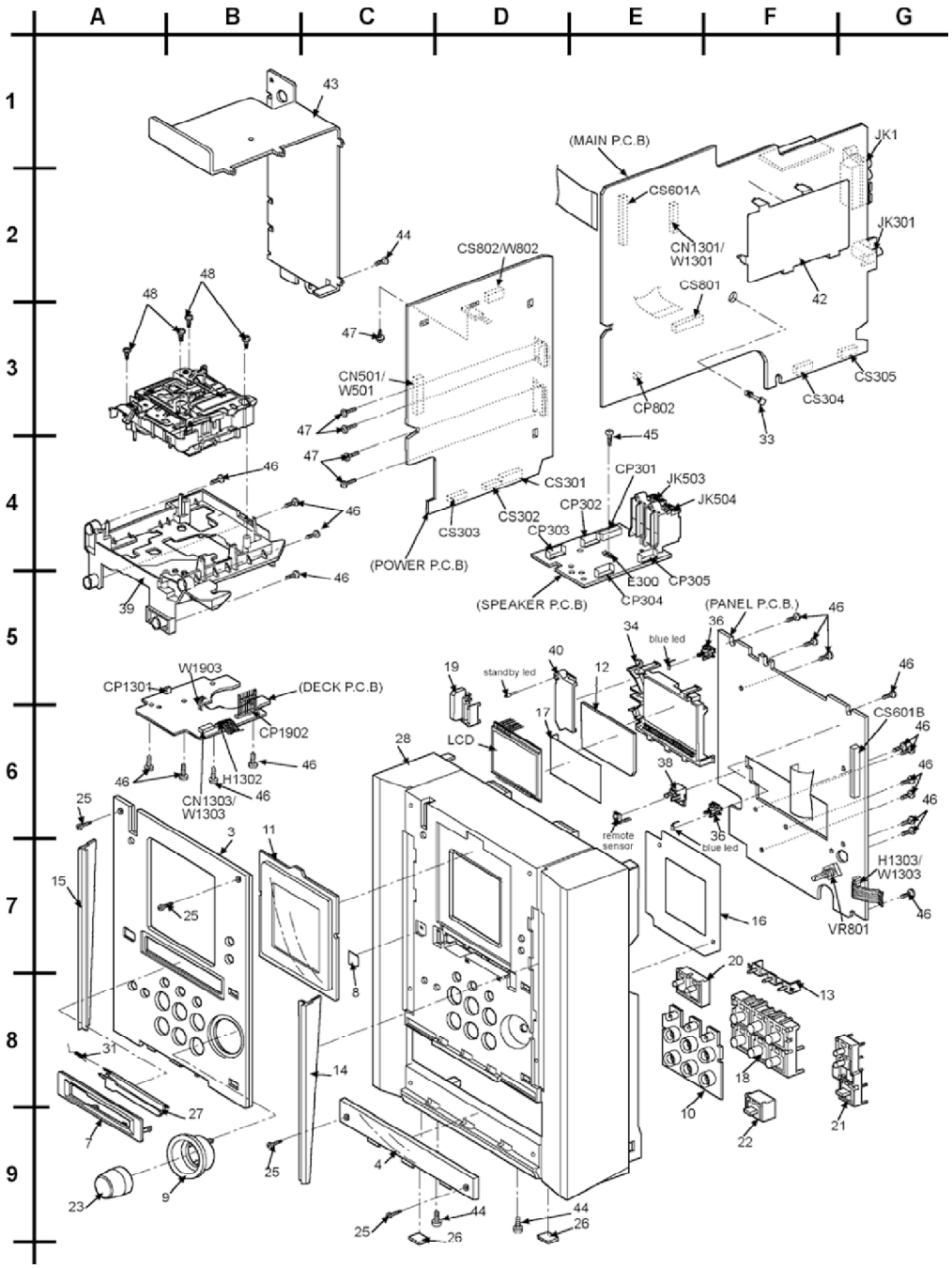


17.2.2. CD Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RAE0155Z-1V	CT100W TRAVERSE	[M]
302	RDG0455	TRAVERSE GEAR (A)	[M]
303	RDG0456	TRAVERSE GEAR (B)	[M]
304	RFKNCT100	TRAVERSE BASE ASS'Y	[M]
304-1	RDG0457	LOAD GEAR (A)	[M]
304-2	RDG0458	LOAD GEAR (B)	[M]
304-3	RDG0459	LOAD GEAR (C)	[M]
304-4	RME0290	PRESS SPRING	[M]
304-5	RME0291	LOCK SPRING	[M]
304-6	RML0551	TRG LEVER	[M]
304-7	RML0552	LOCK LEVER	[M]
304-8	RMM0219	STOPPER	[M]
304-9	XQN17+C28F	SCREW	[M]
304-10	RXQ0632	TRV MOTOR UNIT	[M]
305	RDG0460	CAM GEAR	[M]
306	RDG0461	DRIVE GEAR	[M]
307	RGQ0254-K	TRAY	[M]
308	RHM0001	MAGNET	[M]
309	RMB0603	FLOATING SPRING	[M]
310	RME0288	CENTERING SPRING	[M]
311	RFKNXED50-S	CLAMPER HOLDER ASS'Y	[M]
312	RMG0510-K	FLOATING RUBBER (A)	[M]
313	RMG0511-K	FLOATING RUBBER (B)	[M]
314	RMK0422	MECHA CHASSIS	[M]
315	RMM0218	TRAVERSE DRIVE RACK	[M]
316	RHD30083	CAM. GEAR SCREW	[M]
317	RMR1223-K	CLAMP PLATE	[M]
318	RMR1242-X1	FIXTURE	[M]
320	XTN2+6G	SCREW	[M]
321	RXQ0704	OPU UNIT	[M]

17.3. Cabinet

17.3.1. Cabinet Parts Location


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
(MAIN P.C.B)
JK1
CS601A
JK301
CN1301/
W1301
CS801
42
CS802/W802
CN501/
W501
CS305
CS304
CP802
33
45
CP301
JK503
JK504
CP302
CS301
CS302
CP303
CS303
(POWER P.C.B)
E300
CP305
CP304
(SPEAKER P.C.B)
(PANEL P.C.B.)
blue led
standby led
LCD
CS601B
W1903
CP1301
(DECK P.C.B)
CP1902
H1302
CN1303/
W1303
remote
sensor
H1303/
W1303
VR801
43
44
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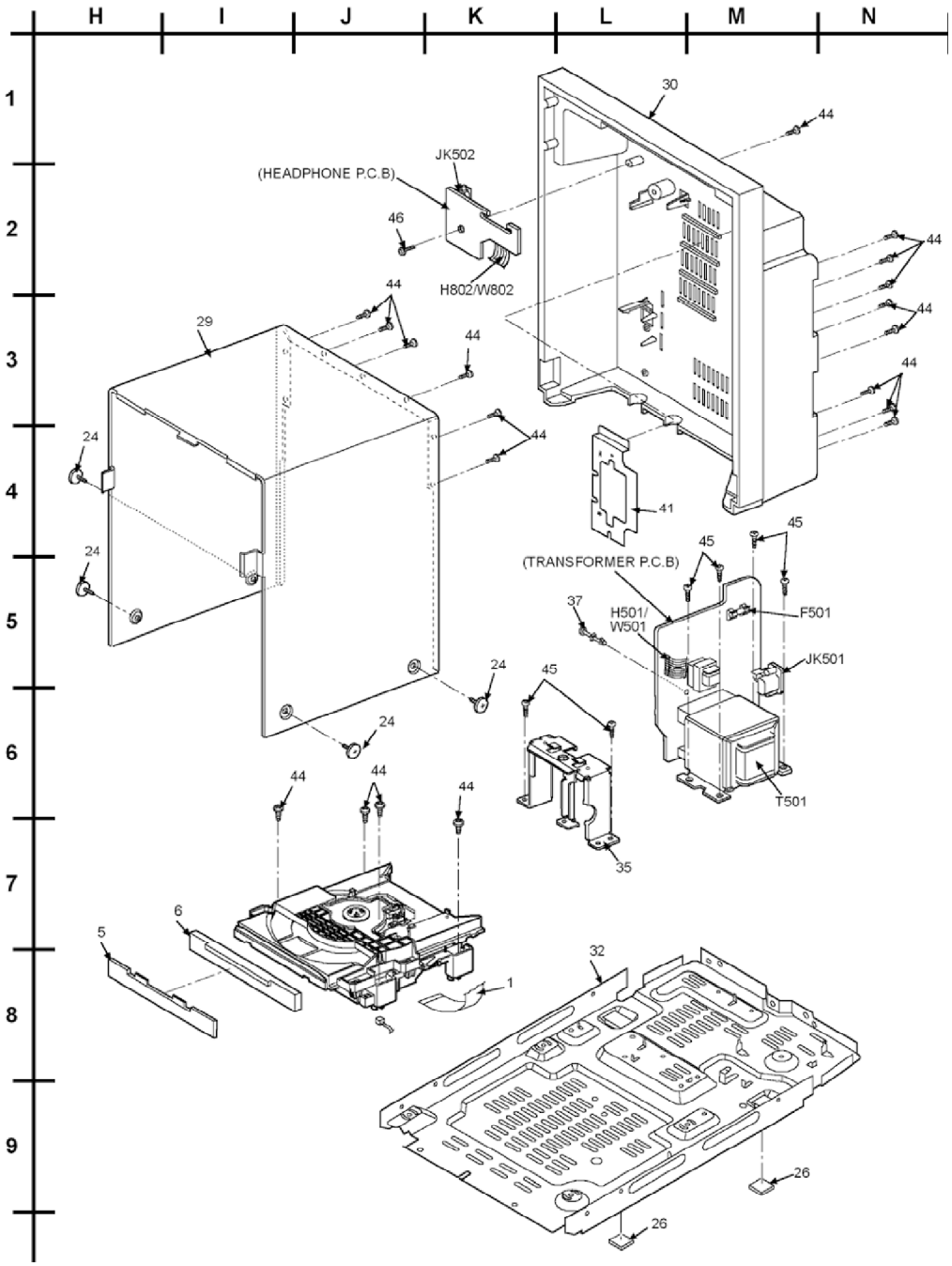


17.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0097	19P (CR100 TO MAIN)	[M]
3	RGKX0083A-H	FRONT ORNAMENT	[M]
4	RGKX0084-H	UNDER ORNAMENT	[M]
5	RGKX0085-H	CD ORNAMENT	[M]
6	RGKX0086-S	CD LID	[M]
7	RGKX0087-H	CASS.ORNAMENT	[M]
8	RGKX0088-S	SENSOR PANEL	[M]
9	RGKX0089-S	VOLUME KNOB RING	[M]
10	RGKX0091-S	FUNCTION RING	[M]
11	RGLX0037-A	LCD WINDOW	[M]
12	RGLX0038	LCD LIGHTING PANEL	[M]
13	RGLX0039	LIGHTING CHIP	[M]
14	RGLX0040	EDGE LIGHTING PANEL-	[M]
15	RGLX0041	EDGE LIGHTING PANEL-	[M]
16	RGPX0047	LCD SHEET	[M]
17	RGPX0048	LCD DIFFUSER	[M]
18	RGUX0404-S	FUNCTION/STOP BUTTON	[M]
19	RGUX0405-S	POWER BUTTON	[M]
20	RGUX0406-S	DISP/DEMO BUTTON	[M]
21	RGUX0407-S	REC/TAPE EJECT BTN	[M]
22	RGUX0408-S	CD EJECT BUTTON	[M]
23	RGWX0059-S	VOLUME KNOB	[M]
24	RHD30007-S	SCREW	[M]
25	RHDX20001-S	SCREW	[M]
26	RKA0059-K	LEG FELT	[M]
27	RKFX0090-S	CASS LID	[M]
28	RKMX0062-S	FRONT PANEL	[M]
29	RKMX0063-S	TOP CABINET (BENT)	[M]
30	RFKHAPM25GDS	REAR CABINET ASS'Y	[M]
31	RMEX0013	CASS LID SPRING	[M]
32	RMKX0052	BOTTOM CHASSIS	[M]
33	RMN0091	SPACER	[M]
34	RMNX0049-W	LCD HOLDER	[M]
35	RMNX0050	TR2 SUPPORT BRACKET	[M]
36	RMNX0051-W	EDGE LIGHTING LED HO	[M]
37	RMNX0053	PCB SPACER	[M]
38	RMNX0055	SENSOR HOLDER	[M]
39	RMRX0032-W	TR2 CHASSIS	[M]
40	RMVX0057	LCD LED COVER	[M]
41	RSCX0055	TUNER SHIELD	[M]
42	RSCX0056	TUNER SHIELD - RIGHT	[M]
43	RXXX0027	HEATSINK UNIT	[M]
44	XTB3+10JFZ	SCREW	[M]
45	XTB3+8JFZ	SCREW	[M]
46	XTBS26+10J	SCREW	[M]
47	XTV3+10F	SCREW (HEAT SINK)	[M]
48	XTV3+10G	SCREW	[M]

17.4. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP2807D	CD SERVO P.C.B.	[M](RTL)
	REPX0240B	DECK P.C.B.	[M](RTL)
	REPX0108	DECK MECHANISM P.C.B.	[M](RTL)
	REPX0241F	MAIN/TUNER P.C.B.	[M](RTL)
	REPX0242F	PANEL P.C.B.	[M](RTL)
	REPX0241F	SPEAKER P.C.B.	[M](RTL)
	REPX0241F	HEADPHONE P.C.B.	[M](RTL)
	REPX0242F	POWER P.C.B.	[M](RTL)
	REPX0241F	AC TRANSFORMER P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC1	LA1833NMNTLM	IC IF & MPX	[M]
IC2	LC72131MDTRM	IC PLL	[M]
IC301	S81333HG-Z	IC REG (3.3V)	[M] ⚠
IC303	BH3857AFV-E2	IC SOUND PROCESSOR	[M]
IC501	LA4705NA	IC POWER	[M]
IC502	AN7135	IC POWER AMP	[M]
IC601	M38258MCM088	IC MICRO COMPUTER	[M]
IC701	AN8885SBE1	IC HEAD AMP	[M]
IC702	MN662790RSC	IC LSI	[M]
IC703	BA5948FPE2	IC 4 CH DRIVE	[M]
IC971	0N2180RLC1	IC PHOTO INTERUPTOR	[M]
IC1000	BA7755A	IC ANALOG SW	[M]
IC1001	AN7326K	IC DECK R/P	[M]
		TRANSISTORS	
Q1	2SC2787LTA	TRANSISTOR	[M]
Q2	2SC2787LTA	TRANSISTOR	[M]
Q6	RVTDTA114EST	TRANSISTOR	[M]
Q101	KTC3199GRTA	TRANSISTOR	[M]
Q102	KTC3199GRTA	TRANSISTOR	[M]
Q103	KTC3199GRTA	TRANSISTOR	[M]
Q104	KTC3199GRTA	TRANSISTOR	[M]
Q105	KTC3199GRTA	TRANSISTOR	[M]
Q201	KTC3199GRTA	TRANSISTOR	[M]
Q202	KTC3199GRTA	TRANSISTOR	[M]
Q203	KTC3199GRTA	TRANSISTOR	[M]
Q204	KTC3199GRTA	TRANSISTOR	[M]
Q205	KTC3199GRTA	TRANSISTOR	[M]
Q301	KTC3199GRTA	TRANSISTOR	[M]
Q303	KTC3199GRTA	TRANSISTOR	[M]
Q304	KTA12710YTA	TRANSISTOR	[M]
Q305	KRA107MTA	TRANSISTOR	[M]
Q306	KRC101MTA	TRANSISTOR	[M]
Q307	KRC101MTA	TRANSISTOR	[M]
Q308	KRC101MTA	TRANSISTOR	[M]
Q309	2SD592ARTA	TRANSISTOR	[M] ⚠
Q311	KRC104MTA	TRANSISTOR	[M]
Q312	KRC102MTA	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q313	KRA102MTA	TRANSISTOR	[M]
Q501	KTC3199GRTA	TRANSISTOR	[M]
Q502	2SD592ARTA	TRANSISTOR	[M] ⚠
Q503	2SD592ARTA	TRANSISTOR	[M]
Q504	KRA102MTA	TRANSISTOR	[M]
Q505	KRC102MTA	TRANSISTOR	[M]
Q506	KRA102MTA	TRANSISTOR	[M]
Q507	KRA110MTA	TRANSISTOR	[M]
Q508	KTA1046	TRANSISTOR	[M]
Q509	KTC3199GRTA	TRANSISTOR	[M] ⚠
Q510	KTC3199GRTA	TRANSISTOR	[M]
Q511	KTC32030YTA	TRANSISTOR	[M]
Q512	KRC102MTA	TRANSISTOR	[M]
Q514	KRA102MTA	TRANSISTOR	[M]
Q601	KTA1266GRAT	TRANSISTOR	[M]
Q602	KTA1266GRAT	TRANSISTOR	[M]
Q603	KRC104MTA	TRANSISTOR	[M]
Q604	KTC3199GRTA	TRANSISTOR	[M]
Q605	KTC3199GRTA	TRANSISTOR	[M]
Q606	KRC104MTA	TRANSISTOR	[M]
Q608	KRC102MTA	TRANSISTOR	[M]
Q609	KRC102MTA	TRANSISTOR	[M]
Q610	KRC102MTA	TRANSISTOR	[M]
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q1102	2SJ498DTA	TRANSISTOR	[M]
Q1202	2SJ498DTA	TRANSISTOR	[M]
Q1301	KRC111MTA	TRANSISTOR	[M]
Q1303	KRC119MTA	TRANSISTOR	[M]
Q1304	KRA102MTA	TRANSISTOR	[M]
Q1305	KRC102MTA	TRANSISTOR	[M]
Q1306	KTC3199GRTA	TRANSISTOR	[M]
Q1307	KTC3199GRTA	TRANSISTOR	[M]
Q1308	KRC114MTA	TRANSISTOR	[M]
Q1309	KTC3199GRTA	TRANSISTOR	[M]
Q1310	KTC3199GRTA	TRANSISTOR	[M]
Q1312	KTC3199GRTA	TRANSISTOR	[M]
Q1313	2SC1845FTA	TRANSISTOR	[M]
Q1314	KRA102MTA	TRANSISTOR	[M]
Q1315	KTA12710YTA	TRANSISTOR	[M]
Q1316	2SD965RTA	TRANSISTOR	[M]
Q1317	2SC2001LTA	TRANSISTOR	[M]
Q1321	KRC119MTA	TRANSISTOR	[M]
Q1322	KRA102MTA	TRANSISTOR	[M]
		DIODES	
D1	MTZJ5R1BTA	DIODE	[M]
D302	RL1N4003S-P	DIODE	[M]
D303	RL1N4003S-P	DIODE	[M]
D304	RVD1SS133TA	DIODE	[M]
D306	RVD1SS133TA	DIODE	[M]
D307	MA700ATA	DIODE	[M]
D308	MA700ATA	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D309	MA700ATA	DIODE	[M]
D310	MA700ATA	DIODE	[M]
D311	MA700ATA	DIODE	[M]
D312	MTZJ15CTA	DIODE	[M]
D501	RL1N4003S-P	DIODE	[M] ⚠
D502	RL1N4003S-P	DIODE	[M] ⚠
D503	RL1N4003S-P	DIODE	[M] ⚠
D504	RL1N4003S-P	DIODE	[M] ⚠
D505	RVD1SS133TA	DIODE	[M]
D506	SB360L6508	DIODE	[M]
D507	SB360L6508	DIODE	[M]
D508	SB360L6508	DIODE	[M]
D509	SB360L6508	DIODE	[M]
D510	RVD1SS133TA	DIODE	[M]
D511	MTZJ5R1BTA	DIODE	[M]
D512	RL1N4003S-P	DIODE	[M]
D513	MTZJ7R5BTA	DIODE	[M]
D514	1D3E	DIODE	[M]
D515	RVD1SS133TA	DIODE	[M]
D516	1SS291TA	DIODE	[M]
D518	1SS291TA	DIODE	[M]
D519	RVD1SS133TA	DIODE	[M]
D520	MTZJ9R1ATA	DIODE	[M]
D521	RVD1SS133TA	DIODE	[M]
D522	RVD1SS133TA	DIODE	[M]
D523	RB441Q40T77	DIODE	[M]
D524	RL1N4003S-P	DIODE	[M]
D601	LNW9A8BYBZ	DIODE	[M]
D602	LNW9A8BYBZ	DIODE	[M]
D603	LNW9A8BYBP45	DIODE	[M]
D604	LNW9A8BYBP45	DIODE	[M]
D607	1SS291TA	DIODE	[M]
D608	1SS291TA	DIODE	[M]
D609	RVD1SS133TA	DIODE	[M]
D610	RVD1SS133TA	DIODE	[M]
D611	RVD1SS133TA	DIODE	[M]
D612	SLC-22VR	DIODE	[M]
D613	MTZJ8R2BTA	DIODE	[M]
D614	SLR325MCT31W	DIODE	[M]
D615	SLR325MCT31W	DIODE	[M]
D616	SLA370MT	DIODE	[M]
D617	SLR325MCT31W	DIODE	[M]
D750	MA8056MTX	DIODE	[M]
D971	MA165TA	DIODE	[M]
D1301	RVD1SS133TA	DIODE	[M]
		VARIABLE RESISTORS	
VR801	RRV16B24304A	VR ENCORDED VOLUME	[M]
		SWITCHES	
S701	RSH1A048-A	SW RESET	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S780	RSH1A049-U	SW OPEN	[M]
S971	RSH1A018-3U	SW MODE	[M]
S972	RSH1A019-2U	SW LEAF	[M]
S973	RSH1A019-2U	SW LEAF	[M]
S974	RSH1A019-2U	SW LEAF	[M]
S975	RSH1A019-2U	SW LEAF	[M]
S1301	K0F111A00375	SW DECK MODE	[M]
		SWITCHES	
SW801	EVQ21405R	SW TAPE EJECT	[M]
SW802	EVQ21405R	SW TAPE/REC/PAUSE	[M]
SW803	EVQ21405R	SW CD EDIT	[M]
SW804	EVQ21405R	SW POWER	[M]
SW805	EVQ21405R	SW DISPLAY/RDS	[M]
SW806	EVQ21405R	SW SELECTOR	[M]
SW807	EVQ21405R	SW TUNER BAND	[M]
SW808	EVQ21405R	SW STOP	[M]
SW809	EVQ21405R	SW REW	[M]
SW810	EVQ21405R	SW TAPE	[M]
SW811	EVQ21405R	SW CD FF/PAUSE	[M]
SW812	EVQ21405R	SW FF	[M]
SW813	EVQ21405R	SW OPEN/CLOSE/STOP	[M]
		CONNECTORS	
CN501	RJP12G4YA	CONNECTOR	[M]
CN701	RJS2A8616	16P FPC CONNECTOR	[M]
CN702	RJS1A9319	19P FFC CONNECTOR	[M]
CN1303	RJP8G17ZA	CONNECTOR	[M]
CP301	SJS50878JQ	8P BTB CONNECTOR	[M]
CP302	RJT057G10	CONNECTOR	[M]
CP303	RJT057G10	CONNECTOR	[M]
CP304	RJT057G10	CONNECTOR	[M]
CP305	RJT057G10	CONNECTOR	[M]
CP1301	RJP9G18ZA	CONNECTOR	[M]
CP1301	RJS1A6805-J	CONNECTOR	[M]
CP1902	RJT071K09A	CONNECTOR	[M]
CS301	RJP8G9YA	10P CONNECTOR	[M]
CS302	RJU057G10	10P CONNECTOR	[M]
CS303	RJU057G10	10P CONNECTOR	[M]
CS304	RJU057G10	10P CONNECTOR	[M]
CS305	RJU057G10	10P CONNECTOR	[M]
CS601A	RJS2A3336M	36P FFC CONNECTOR	[M]
CS601B	RJS2A3336M	36P FFC CONNECTOR	[M]
CS801	RJS1A6819-J	19P FFC CONNECTOR	[M]
CS802	RJP6G9YA	6P CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1	ELESNR68MA	CHOKE COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L2	ELESNR68MA	CHOKE COIL	[M]
L3	ELEXTR47MA9	CHOKE COIL	[M]
L101	RLL500050T-Y	RF CHOKE COIL	[M]
L201	RLL500050T-Y	RF CHOKE COIL	[M]
L303	RLL500050T-Y	RF CHOKE COIL	[M]
L304	RLL500050T-Y	RF CHOKE COIL	[M]
L501	RLQZ271M	AC LINE COIL	[M]
L601	RLQZP1R0KT-Y	AXIAL COIL	[M]
L602	RLQZP1R0KT-Y	AXIAL COIL	[M]
L1301	7L1A62N	BIAS OCS COIL	[M]
T501	RTP1M3E027	TRANSFORMER	[M] ⚠
T502	RTP1H3E001	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATIO	
Z1	RLA2Z006M-T	ANTENNA COIL BLOCK	[M]
Z2	RLI2Z006M-T	AM IFT	[M]
Z20	ENV17290G1Y	FM TUNER PACK	[M]
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z601	RCD61H367AF3	REMOTE SENSOR	[M]
Z602	RSL5273-G	LCD	[M]
Z971	EXBF7L355SYV	RADA RESISTOR	[M]
		CERAMIC FILTERS	
CF1	RLFFETNGD01L	CERAMIC CAPACITOR	[M]
CF2	RLFFETMGD01L	CERAMIC FILTER	[M]
		RELAY	
RL501	RSY0040M-0	RELAY	[M] ⚠
		OSCILLATORS	
X2	RLFDFT13DD	CERAMIC FILTER	[M]
X3	RSXD7M20C01	CRYSTAL OSCILLATOR	[M]
X601	RSXZ8M00D03	CERAMIC RESONATOR	[M]
X602	RSXD32K0C01	CRYSTAL OSCILLATOR	[M]
X701	RSXZ16M9M06	CRYSTAL OSCILLATOR	[M]
		FUSES	
F1	XBA2C06TB0	FUSE	[M] ⚠
		FUSE HOLDERS	
FH501	EYF52BC	FUSE HOLDER	[M]
FH502	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
FP501	RSFMB20KT-L	PROTECTOR	[M]
		HOLDERS	
H501	RJS1A5512	12P WIRE HOLDER	[M]
H802	RJS1A5506	6P WIRE HOLDER	[M]
H1302	RMR0318	9P WIRE HOLDER	[M]
H1303	RMR0317	8P WIRE HOLDER	[M]
		JACKS	
JK1	RJH8304N	JK ANTENNA	[M]
JK301	RJH2206	JK RCA PIN	[M]
JK501	SJS9236-1	JK AC INLET	[M] ⚠
JK502	RJJ39T01	JK MIC	[M]
JK503	RJH5415-1	JK RED/BLACK SPEAKER	[M]
JK504	RJH5416-1	JK BLUE/GRAY SPEAKER	[M]
		EARTH TERMINAL	
E300	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REEX0116	WIRE	[M]
W501	REXX0248	WIRE	[M]
W802	REX0992	MAIN TO CD WIRE	[M]
W802	REXX0249	WIRE	[M]
W1301	REXX0250	WIRE	[M]
W1303	REXX0251	WIRE	[M]
W1903	RWJ0102050KR	MOTOR WIRE	[M]
		RESISTORS	
R2	ERDS2TJ472T	4.7K 1/4W	[M]
R3	ERDS2TJ101T	100 1/4W	[M]
R4	ERDS2TJ103T	10K 1/4W	[M]
R5	ERDS2TJ471T	470 1/4W	[M]
R6	ERDS2TJ474T	470K 1/4W	[M]
R7	ERDS2TJ331T	330 1/4W	[M]
R8	ERDS2TJ474T	470K 1/4W	[M]
R9	ERDS2TJ331T	330 1/4W	[M]
R10	ERDS2TJ562T	5.6K 1/4W	[M]
R11	ERDS2TJ391T	390 1/4W	[M]
R12	ERDS2TJ104T	100K 1/4W	[M]
R13	ERDS2TJ103T	10K 1/4W	[M]
R14	ERDS2TJ562T	5.6K 1/4W	[M]
R15	ERDS2TJ561T	560 1/4W	[M]
R16	ERDS2TJ102T	1K 1/4W	[M]
R17	ERDS2TJ683T	68K 1/4W	[M]
R18	ERDS2TJ472T	4.7K 1/4W	[M]
R19	ERDS2TJ123T	12K 1/4W	[M]
R20	ERDS2TJ473T	47K 1/4W	[M]
R21	ERDS2TJ223T	22K 1/4W	[M]
R22	ERDS2TJ272T	2.7K 1/4W	[M]
R23	ERDS2TJ683T	68K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R24	ERDS2TJ271T	270 1/4W	[M]
R25	ERDS2TJ471T	470 1/4W	[M]
R26	ERDS2TJ152T	1.5K 1/4W	[M]
R27	ERDS2TJ471T	470 1/4W	[M]
R28	ERDS2TJ820T	82 1/4W	[M]
R29	ERDS2TJ273T	27K 1/4W	[M]
R30	ERDS2TJ103T	10K 1/4W	[M]
R31	ERDS2TJ680T	68 1/4W	[M]
R32	ERDS2TJ103T	10K 1/4W	[M]
R33	ERDS2TJ102T	1K 1/4W	[M]
R34	ERDS2TJ471T	470 1/4W	[M]
R35	ERDS2TJ102T	1K 1/4W	[M]
R36	ERDS2TJ102T	1K 1/4W	[M]
R37	ERDS2TJ102T	1K 1/4W	[M]
R38	ERDS2TJ332T	3.3K 1/4W	[M]
R41	ERDS2TJ102T	1K 1/4W	[M]
R42	ERDS2TJ102T	1K 1/4W	[M]
R43	ERDS2TJ223T	22K 1/4W	[M]
R45	ERDS2TJ104T	100K 1/4W	[M]
R46	ERDS2TJ104T	100K 1/4W	[M]
R101	ERDS2TJ472T	4.7K 1/4W	[M]
R102	ERDS2TJ153T	15K 1/4W	[M]
R103	ERDS2TJ822T	8.2K 1/4W	[M]
R104	ERDS2TJ1R2T	1.2 1/4W	[M]
R105	ERDS2TJ1R0T	1 1/4W	[M]
R106	ERX1SJR82E	0.82 1W	[M] ⚠
R107	ERX1SJR82E	0.82 1W	[M] ⚠
R108	ERDS2TJ223T	22K 1/4W	[M]
R109	ERDS2TJ472T	4.7K 1/4W	[M]
R110	ERDS2TJ104T	100K 1/4W	[M]
R111	ERDS2TJ472T	4.7K 1/4W	[M]
R112	ERDS2TJ392T	3.9K 1/4W	[M]
R113	ERDS2TJ123T	12K 1/4W	[M]
R114	ERDS2TJ223T	22K 1/4W	[M]
R115	ERDS2TJ123T	12K 1/4W	[M]
R116	ERDS2TJ822T	8.2K 1/4W	[M]
R117	ERDS2TJ183T	18K 1/4W	[M]
R118	ERDS2TJ183T	18K 1/4W	[M]
R119	ERDS2TJ473T	47K 1/4W	[M]
R120	ERDS2TJ273T	27K 1/4W	[M]
R121	ERDS2TJ820T	82 1/4W	[M]
R122	ERDS2TJ100T	10 1/4W	[M]
R144	ERDS2TJ822T	8.2K 1/4W	[M]
R201	ERDS2TJ472T	4.7K 1/4W	[M]
R202	ERDS2TJ153T	15K 1/4W	[M]
R203	ERDS2TJ822T	8.2K 1/4W	[M]
R204	ERDS2TJ1R2T	1.2 1/4W	[M]
R205	ERDS2TJ1R0T	1 1/4W	[M]
R206	ERX1SJR82E	0.82 1W	[M] ⚠
R207	ERX1SJR82E	0.82 1W	[M] ⚠
R208	ERDS2TJ223T	22K 1/4W	[M]
R209	ERDS2TJ472T	4.7K 1/4W	[M]
R210	ERDS2TJ104T	100K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R211	ERDS2TJ472T	4.7K 1/4W	[M]
R212	ERDS2TJ392T	3.9K 1/4W	[M]
R213	ERDS2TJ123T	12K 1/4W	[M]
R214	ERDS2TJ223T	22K 1/4W	[M]
R215	ERDS2TJ123T	12K 1/4W	[M]
R216	ERDS2TJ822T	8.2K 1/4W	[M]
R217	ERDS2TJ183T	18K 1/4W	[M]
R218	ERDS2TJ183T	18K 1/4W	[M]
R219	ERDS2TJ473T	47K 1/4W	[M]
R220	ERDS2TJ273T	27K 1/4W	[M]
R221	ERDS2TJ820T	82 1/4W	[M]
R222	ERDS2TJ100T	10 1/4W	[M]
R244	ERDS2TJ822T	8.2K 1/4W	[M]
R301	ERDS2TJ471T	470 1/4W	[M]
R302	ERDS2TJ153T	15K 1/4W	[M]
R303	ERDS2TJ221T	220 1/4W	[M]
R304	ERDS2TJ330T	33 1/4W	[M]
R305	ERDS2TJ330T	33 1/4W	[M]
R306	ERDS2TJ104T	100K 1/4W	[M]
R307	ERDS2TJ334T	330K 1/4W	[M]
R308	ERDS2TJ334T	330K 1/4W	[M]
R309	ERDS2TJ223T	22K 1/4W	[M]
R310	ERDS2TJ472T	4.7K 1/4W	[M]
R311	ERDS2TJ472T	4.7K 1/4W	[M]
R312	ERDS2TJ103T	10K 1/4W	[M]
R313	ERDS2TJ331T	330 1/4W	[M]
R314	ERDS2TJ122T	1.2K 1/4W	[M]
R315	ERDS2TJ472T	4.7K 1/4W	[M]
R322	ERDS2TJ102T	1K 1/4W	[M]
R325	ERDS2TJ472T	4.7K 1/4W	[M]
R328	ERDS2TJ472T	4.7K 1/4W	[M]
R333	ERDS2TJ562T	5.6K 1/4W	[M]
R334	ERDS2TJ562T	5.6K 1/4W	[M]
R335	ERDS2TJ562T	5.6K 1/4W	[M]
R336	ERDS2TJ103T	10K 1/4W	[M]
R337	ERDS2TJ103T	10K 1/4W	[M]
R338	ERDS2TJ103T	10K 1/4W	[M]
R339	ERDS2TJ103T	10K 1/4W	[M]
R340	ERDS2TJ103T	10K 1/4W	[M]
R341	ERDS2TJ103T	10K 1/4W	[M]
R342	ERDS2TJ472T	4.7K 1/4W	[M]
R343	ERDS2TJ472T	4.7K 1/4W	[M]
R344	ERDS2TJ472T	4.7K 1/4W	[M]
R345	ERDS2TJ562T	5.6K 1/4W	[M]
R347	ERDS2TJ223T	22K 1/4W	[M]
R348	ERDS2TJ101T	100 1/4W	[M]
R349	ERDS2TJ101T	100 1/4W	[M]
R350	ERDS2TJ101T	100 1/4W	[M]
R351	ERDS2TJ104T	100K 1/4W	[M]
R352	ERDS2TJ104T	100K 1/4W	[M]
R353	ERDS2TJ104T	100K 1/4W	[M]
R354	ERD2FCVG220T	22 1/4W	[M]
R355	ERDS2TJ122T	1.2K 1/4W	[M]
R356	ERDS2TJ101T	100 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R360	ERDS2TJ182T	1.8K 1/4W	[M]
R370	ERDS2TJ472T	4.7K 1/4W	[M]
R371	ERDS2TJ222T	2.2K 1/4W	[M]
R373	ERDS2TJ102T	1K 1/4W	[M]
R374	ERDS2TJ102T	1K 1/4W	[M]
R375	ERDS2TJ471T	470 1/4W	[M]
R502	ERDS2TJ332T	3.3K 1/4W	[M]
R503	ERDS2TJ103T	10K 1/4W	[M]
R504	ERDS2TJ2R2T	2.2 1/4W	[M]
R505	ERDS2TJ2R2T	2.2 1/4W	[M]
R506	ERDS2TJ222T	2.2K 1/4W	[M]
R507	ERDS2TJ103T	10K 1/4W	[M]
R508	ERD2FCVJ8R2T	8.2 1/4W	[M]
R509	ERDS1FVJ4R7T	4.7 1/2W	[M]
R510	ERDS1FVJ4R7T	4.7 1/2W	[M]
R511	ERDS1FVJ4R7T	4.7 1/2W	[M]
R512	ERDS2TJ152T	1.5K 1/4W	[M]
R513	ERDS2TJ102T	1K 1/4W	[M]
R514	ERDS2TJ824T	820K 1/4W	[M]
R518	ERDS2TJ1R2T	1.2 1/4W	[M]
R519	ERDS2TJ223T	22K 1/4W	[M]
R520	ERDS2TJ472T	4.7K 1/4W	[M]
R521	ERDS2TJ102T	1K 1/4W	[M]
R522	ERDS2TJ103T	10K 1/4W	[M]
R523	ERDS2TJ331T	330 1/4W	[M]
R524	ERDS2TJ681T	680 1/4W	[M]
R525	ERDS2TJ822T	8.2K 1/4W	[M]
R526	ERDS2TJ101T	100 1/4W	[M]
R527	ERDS2TJ103T	10K 1/4W	[M]
R528	ERDS2TJ1R5T	1.5 1/4W	[M]
R529	ERDS2TJ1R5T	1.5 1/4W	[M]
R530	ERDS2TJ1R5T	1.5 1/4W	[M]
R531	ERDS2TJ681T	680 1/4W	[M]
R532	ERDS2TJ104T	100K 1/4W	[M]
R533	ERDS2TJ272T	2.7K 1/4W	[M]
R534	ERDS2TJ222T	2.2K 1/4W	[M]
R535	ERDS2TJ333T	33K 1/4W	[M]
R536	ERDS2TJ104T	100K 1/4W	[M]
R538	ERDS2TJ102T	1K 1/4W	[M]
R539	ERDS2TJ103T	10K 1/4W	[M]
R540	ERDS2TJ2R2T	2.2 1/4W	[M]
R541	ERDS2TJ2R2T	2.2 1/4W	[M]
R542	ERDS2TJ2R2T	2.2 1/4W	[M]
R543	ERDS2TJ2R2T	2.2 1/4W	[M]
R544	ERDS2TJ472T	4.7K 1/4W	[M]
R545	ERDS2TJ333T	33K 1/4W	[M]
R546	ERDS2TJ122T	1.2K 1/4W	[M]
R547	ERDS2TJ102T	1K 1/4W	[M]
R601	ERDS2TJ152T	1.5K 1/4W	[M]
R602	ERDS2TJ221T	220 1/4W	[M]
R603	ERDS2TJ103T	10K 1/4W	[M]
R604	ERDS2TJ223T	22K 1/4W	[M]
R605	ERDS2TJ471T	470 1/4W	[M]
R606	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R607	ERDS2TJ223T	22K 1/4W	[M]
R608	ERDS2TJ153T	15K 1/4W	[M]
R609	ERDS2TJ823T	82K 1/4W	[M]
R610	ERDS2TJ823T	82K 1/4W	[M]
R611	ERDS2TJ823T	82K 1/4W	[M]
R612	ERDS2TJ222T	2.2K 1/4W	[M]
R613	ERDS2TJ472T	4.7K 1/4W	[M]
R614	ERDS2TJ472T	4.7K 1/4W	[M]
R615	ERDS2TJ103T	10K 1/4W	[M]
R616	ERDS2TJ102T	1K 1/4W	[M]
R617	ERDS2TJ472T	4.7K 1/4W	[M]
R618	ERDS2TJ472T	4.7K 1/4W	[M]
R619	ERDS2TJ472T	4.7K 1/4W	[M]
R620	ERDS2TJ102T	1K 1/4W	[M]
R621	ERDS2TJ102T	1K 1/4W	[M]
R622	ERDS2TJ102T	1K 1/4W	[M]
R623	ERDS2TJ102T	1K 1/4W	[M]
R624	ERDS2TJ102T	1K 1/4W	[M]
R625	ERDS2TJ102T	1K 1/4W	[M]
R626	ERDS2TJ153T	15K 1/4W	[M]
R627	ERDS2TJ102T	1K 1/4W	[M]
R629	ERDS2TJ472T	4.7K 1/4W	[M]
R630	ERDS2TJ472T	4.7K 1/4W	[M]
R632	ERDS2TJ473T	47K 1/4W	[M]
R633	ERDS2TJ106T	10M 1/4W	[M]
R634	ERDS2TJ334T	330K 1/4W	[M]
R635	ERDS2TJ105T	1M 1/4W	[M]
R637	ERDS2TJ472T	4.7K 1/4W	[M]
R638	ERDS2TJ472T	4.7K 1/4W	[M]
R639	ERDS2TJ102T	1K 1/4W	[M]
R640	ERDS2TJ103T	10K 1/4W	[M]
R641	ERDS2TJ152T	1.5K 1/4W	[M]
R642	ERDS2TJ102T	1K 1/4W	[M]
R643	ERDS2TJ103T	10K 1/4W	[M]
R644	ERDS2TJ103T	10K 1/4W	[M]
R645	ERDS2TJ103T	10K 1/4W	[M]
R646	ERDS2TJ102T	1K 1/4W	[M]
R647	ERDS2TJ102T	1K 1/4W	[M]
R648	ERDS2TJ122T	1.2K 1/4W	[M]
R649	ERDS2TJ182T	1.8K 1/4W	[M]
R650	ERDS2TJ222T	2.2K 1/4W	[M]
R651	ERDS2TJ272T	2.7K 1/4W	[M]
R652	ERDS2TJ472T	4.7K 1/4W	[M]
R653	ERDS2TJ682T	6.8K 1/4W	[M]
R654	ERDS2TJ103T	10K 1/4W	[M]
R657	ERDS2TJ102T	1K 1/4W	[M]
R658	ERDS2TJ102T	1K 1/4W	[M]
R668	ERDS2TJ123T	12K 1/4W	[M]
R669	ERDS2TJ223T	22K 1/4W	[M]
R674	ERDS2TJ103T	10K 1/4W	[M]
R675	ERDS2TJ821T	820 1/4W	[M]
R676	ERDS2TJ821T	820 1/4W	[M]
R677	ERDS2TJ821T	820 1/4W	[M]
R678	ERDS2TJ821T	820 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R701	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R702	ERJ3GEYJ103V	10K 1/16W	[M]
R704	ERJ3GEYJ102V	1K 1/16W	[M]
R705	ERJ3GEYJ154V	150K 1/16W	[M]
R706	ERJ3GEYJ102V	1K 1/16W	[M]
R707	ERJ3GEYJ393V	39K 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ473V	47K 1/16W	[M]
R711	ERJ3GEYJ823V	82K 1/16W	[M]
R712	ERJ3GEYJ221V	220 1/16W	[M]
R714	ERJ3GEY0R00V	0 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R717	ERJ3GEYJ102V	1K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R721	ERJ3GEYJ101V	100 1/16W	[M]
R723	ERJ3GEYJ103V	10K 1/16W	[M]
R724	ERJ3GEYJ153V	15K 1/16W	[M]
R725	ERJ3GEYJ681V	680 1/16W	[M]
R727	ERJ3GEYJ272V	2.7K 1/16W	[M]
R728	ERJ3GEYJ222V	2.2K 1/16W	[M]
R729	ERJ3GEYJ272V	2.7K 1/16W	[M]
R731	ERJ3GEYJ103V	10K 1/16W	[M]
R732	ERJ3GEYJ102V	1K 1/16W	[M]
R735	ERJ3GEYJ101V	100 1/16W	[M]
R736	ERJ3GEYJ101V	100 1/16W	[M]
R741	ERJ3GEYJ473V	47K 1/16W	[M]
R742	ERJ3GEYJ224V	220K 1/16W	[M]
R744	ERJ3GEYJ124V	120K 1/16W	[M]
R749	ERJ3GEYJ272V	2.7K 1/16W	[M]
R753	ERJ3GEYJ100V	10 1/16W	[M]
R754	ERJ3GEYJ5R6V	5.6 1/16W	[M]
R761	ERJ3GEYJ472V	4.7K 1/16W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1101	ERDS2TJ270T	27 1/4W	[M]
R1102	ERDS2TJ122T	1.2K 1/4W	[M]
R1103	ERDS2TJ183T	18K 1/4W	[M]
R1104	ERDS2TJ103T	10K 1/4W	[M]
R1105	ERDS2TJ222T	2.2K 1/4W	[M]
R1106	ERDS2TJ104T	100K 1/4W	[M]
R1109	ERDS2TJ472T	4.7K 1/4W	[M]
R1110	ERDS2TJ683T	68K 1/4W	[M]
R1201	ERDS2TJ270T	27 1/4W	[M]
R1202	ERDS2TJ122T	1.2K 1/4W	[M]
R1203	ERDS2TJ183T	18K 1/4W	[M]
R1204	ERDS2TJ103T	10K 1/4W	[M]
R1205	ERDS2TJ222T	2.2K 1/4W	[M]
R1206	ERDS2TJ104T	100K 1/4W	[M]
R1209	ERDS2TJ472T	4.7K 1/4W	[M]
R1210	ERDS2TJ683T	68K 1/4W	[M]
R1302	ERDS2TJ101T	100 1/4W	[M]
R1303	ERDS2TJ475T	4.7M 1/4W	[M]
R1304	ERDS2TJ223T	22K 1/4W	[M]
R1305	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1307	ERDS2TJ220T	22 1/4W	[M]
R1308	ERDS2TJ220T	22 1/4W	[M]
R1309	ERDS2TJ471T	470 1/4W	[M]
R1310	ERDS2TJ472T	4.7K 1/4W	[M]
R1311	ERDS2TJ473T	47K 1/4W	[M]
R1312	ERDS2TJ103T	10K 1/4W	[M]
R1314	ERDS2TJ102T	1K 1/4W	[M]
R1316	ERDS2TJ102T	1K 1/4W	[M]
R1317	ERDS2TJ223T	22K 1/4W	[M]
R1318	ERDS2TJ103T	10K 1/4W	[M]
R1319	ERDS2TJ123T	12K 1/4W	[M]
R1320	ERDS2TJ104T	100K 1/4W	[M]
R1321	ERDS2TJ470T	47 1/4W	[M]
R1322	ERDS2TJ823T	82K 1/4W	[M]
R1323	ERDS2TJ332T	3.3K 1/4W	[M]
R1324	ERDS2TJ222T	2.2K 1/4W	[M]
R1326	ERDS2TJ562T	5.6K 1/4W	[M]
R1327	ERDS2TJ472T	4.7K 1/4W	[M]
R1328	ERDS2TJ153T	15K 1/4W	[M]
R1329	ERDS2TJ472T	4.7K 1/4W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1331	ERDS2TJ752T	7.5K 1/4W	[M]
R1332	ERDS2TJ103T	10K 1/4W	[M]
R1333	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1334	ERDS2TJ223T	22K 1/4W	[M]
R1335	ERDS2TJ152T	1.5K 1/4W	[M]
R1336	ERDS2TJ152T	1.5K 1/4W	[M]
R1337	ERDS2TJ103T	10K 1/4W	[M]
R1341	ERDS2TJ681T	680 1/4W	[M]
R1343	ERDS2TJ332T	3.3K 1/4W	[M]
R1344	ERDS2TJ273T	27K 1/4W	[M]
R1345	ERDS2TJ102T	1K 1/4W	[M]
R1346	ERDS2TJ103T	10K 1/4W	[M]
		CAPACITORS	
C1	ECBT1C103NS5	0.01 16V	[M]
C2	ECA1CAK101XB	100 16V	[M]
C3	ECBT1C103NS5	0.01 16V	[M]
C4	ECBT1H102KB5	1000P 50V	[M]
C5	ECBT1H102KB5	1000P 50V	[M]
C6	ECBT1C103NS5	0.01 16V	[M]
C7	ECBT1H473ZF5	0.047 50V	[M]
C8	ECBT1H8R2KC5	8.2P 50V	[M]
C9	ECBT1H102KB5	1000P 50V	[M]
C10	ECBT1C103NS5	0.01 16V	[M]
C11	ECA1HAK4R7XB	4.7 50V	[M]
C12	ECBT1C103NS5	0.01 16V	[M]
C13	ECBT1H102KB5	1000P 50V	[M]
C14	ECA1HAK3R3XB	3.3 50V	[M]
C15	ECA1HAK4R7XB	4.7 50V	[M]
C16	ECFR1C333KR	0.033 16V	[M]
C17	ECFR1C183KR	0.018 16V	[M]
C18	ECFR1C183KR	0.018 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C19	ECQP2A391JZT	390P 100V	[M]
C20	ECA1EAK100XB	10 25V	[M]
C21	ECA1HAKR47XB	0.47 50V	[M]
C22	ECA1HAK010XB	1 50V	[M]
C23	ECA1HAK010XB	1 50V	[M]
C24	ECBT1H101KB5	100P 50V	[M]
C25	ECA1EAK220XB	22 25V	[M]
C26	ECBT1H473ZF5	0.047 50V	[M]
C27	ECA1CAK220XB	22 16V	[M]
C29	ECA0JAK101XB	100 6.3V	[M]
C30	ECA0JAK101XB	100 6.3V	[M]
C31	ECBT1H101KB5	100P 50V	[M]
C32	ECBT1H102KB5	1000P 50V	[M]
C33	ECBT1H150JC5	15P 50V	[M]
C34	ECBT1H180JC5	18P 50V	[M]
C36	ECBT1H102KB5	1000P 50V	[M]
C37	ECFR1C472KR	4700P 16V	[M]
C38	ECBT1C103KS5	0.01 16V	[M]
C39	ECFR1C472KR	4700P 16V	[M]
C41	ECA1HAK010XB	1 50V	[M]
C42	ECA1HAK010XB	1 50V	[M]
C43	ECBT1C472KR5	4700P 16V	[M]
C44	ECBT1C472KR5	4700P 16V	[M]
C47	ECBT1H102KB5	1000P 50V	[M]
C48	ECBT1C103NS5	0.01 16V	[M]
C49	ECBT1H104KB5	0.1 50V	[M]
C101	ECBT1C182KR5	1800P 16V	[M]
C102	ECFR1C183KR	0.018 16V	[M]
C103	ECA1EAK100XB	10 25V	[M]
C104	ECBT1H471KB5	470P 50V	[M]
C105	ECA1CAK101XB	100 16V	[M]
C106	ECA1CAK101XB	100 16V	[M]
C107	ECA1CPXL471E	470 16V	[M]
C108	ECQV1H224JZ3	0.22 50V	[M]
C109	ECBT1H473ZF5	0.047 50V	[M]
C110	ECBT1H473ZF5	0.047 50V	[M]
C111	ECQV1H124JZ3	0.12 50V	[M]
C112	ECBT1H471KB5	470P 50V	[M]
C113	ECQV1H154JZ3	0.15 50V	[M]
C114	ECQV1H154JZ3	0.15 50V	[M]
C115	ECFR1C104KR	0.1 16V	[M]
C116	ECFR1C104KR	0.1 16V	[M]
C117	ECBT1H221KB5	220P 50V	[M]
C118	ECBT1H221KB5	220P 50V	[M]
C119	ECBT1H101KB5	100P 50V	[M]
C120	ECA1EAK100XB	10 25V	[M]
C121	ECBT1H101KB5	100P 50V	[M]
C122	ECBT1H101KB5	100P 50V	[M]
C124	ECBT1H102KB5	1000P 50V	[M]
C125	ECFR1C223KR	0.022 16V	[M]
C126	ECBT1H272KR5	2700P 50V	[M]
C127	ECA1AAK221XQ	220 10V	[M]
C128	ECBT1H102KB5	1000P 50V	[M]
C201	ECBT1C182KR5	1800P 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C202	ECFR1C183KR	0.018 16V	[M]
C203	ECA1EAK100XB	10 25V	[M]
C204	ECBT1H471KB5	470P 50V	[M]
C205	ECA1CAK101XB	100 16V	[M]
C206	ECA1CAK101XB	100 16V	[M]
C207	ECA1CPXL471E	470 16V	[M]
C208	ECQV1H224JZ3	0.22 50V	[M]
C209	ECBT1H473ZF5	0.047 50V	[M]
C210	ECBT1H473ZF5	0.047 50V	[M]
C211	ECQV1H124JZ3	0.12 50V	[M]
C212	ECBT1H471KB5	470P 50V	[M]
C213	ECQV1H154JZ3	0.15 50V	[M]
C214	ECQV1H154JZ3	0.15 50V	[M]
C215	ECFR1C104KR	0.1 16V	[M]
C216	ECFR1C104KR	0.1 16V	[M]
C217	ECBT1H221KB5	220P 50V	[M]
C218	ECBT1H221KB5	220P 50V	[M]
C219	ECBT1H101KB5	100P 50V	[M]
C220	ECA1EAK100XB	10 25V	[M]
C221	ECBT1H101KB5	100P 50V	[M]
C222	ECBT1H101KB5	100P 50V	[M]
C224	ECBT1H102KB5	1000P 50V	[M]
C225	ECFR1C223KR	0.022 16V	[M]
C226	ECBT1H272KR5	2700P 50V	[M]
C227	ECA1AAK221XQ	220 10V	[M]
C228	ECBT1H102KB5	1000P 50V	[M]
C301	ECA1EAK100XB	10 25V	[M]
C302	ECFR1C473KR	0.047 16V	[M]
C303	ECBT1H471KB5	470P 50V	[M]
C304	ECQV1H154JZ3	0.15 50V	[M]
C305	ECBT1H101KB5	100P 50V	[M]
C306	ECBT1H101KB5	100P 50V	[M]
C307	ECBT1H471KB5	470P 50V	[M]
C308	ECA1CAM101XB	100 16V	[M]
C309	ECA1EAK100XB	10 25V	[M]
C310	ECA1EAK100XB	10 25V	[M]
C311	ECA1EAK100XB	10 25V	[M]
C312	ECA1EAK100XB	10 25V	[M]
C313	ECA1EAK470XB	47 25V	[M]
C314	ECFR1C473KR	0.047 16V	[M]
C315	ECA1EAK100XB	10 25V	[M]
C317	ECA1EAK100XB	10 25V	[M]
C318	ECA1HAK010XB	1 50V	[M]
C319	ECA1CAK220XB	22 16V	[M]
C329	ECBT1C103MS5	0.01 16V	[M]
C331	ECBT1H101KB5	100P 50V	[M]
C332	ECBT1H101KB5	100P 50V	[M]
C333	ECBT1H101KB5	100P 50V	[M]
C334	ECBT1H102KB5	1000P 50V	[M]
C335	ECBT1H102KB5	1000P 50V	[M]
C338	ECBT1H221KB5	220P 50V	[M]
C339	ECBT1H221KB5	220P 50V	[M]
C340	ECBT1H101KB5	100P 50V	[M]
C341	ECBT1H101KB5	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C342	ECBT1H101KB5	100P 50V	[M]
C344	ECA1CAM471XB	470 16V	[M]
C345	ECA1CAM471XB	470 16V	[M]
C346	ECA1CAM221XB	220 16V	[M]
C350	ECA1CAK101XB	100 16V	[M]
C360	ECBT1H102KB5	1000P 50V	[M]
C361	ECBT1C103MS5	0.01 16V	[M]
C501	ECKR2H103ZF5	0.01 500V	[M]
C502	ECKR2H103ZF5	0.01 500V	[M]
C503	ECKR2H103ZF5	0.01 500V	[M]
C504	ECKR2H103ZF5	0.01 500V	[M]
C506	ECA1CAM102XB	1000 16V	[M]
C507	ECQE2104KF3	0.1 250V	[M]
C508	ECKR1H103ZF5	0.01 50V	[M]
C509	ECKR1H103ZF5	0.01 50V	[M]
C510	ECKR1H103ZF5	0.01 50V	[M]
C511	ECKR1H103ZF5	0.01 50V	[M]
C512	ECA1EAM682XE	6800 25V	[M]
C513	ECA1HAM221XQ	220 50V	[M]
C514	ECA1HAM221XQ	220 50V	[M]
C515	ECA1EAM331XB	330 25V	[M]
C516	ECBT1H102KB5	1000P 50V	[M]
C517	ECBT1C103MS5	0.01 16V	[M]
C518	ECA1CAM101XB	100 16V	[M]
C521	ECA1HAK010XB	1 50V	[M]
C522	ECA1EAK100XB	10 25V	[M]
C523	ECA1CAK220XB	22 16V	[M]
C524	ECQV1H334JZ3	0.33 50V	[M]
C525	ECA1HAK2R2XB	2.2 50V	[M]
C526	ECBT1H471KB5	470P 50V	[M]
C527	ECBT1H471KB5	470P 50V	[M]
C528	ECA1HAK2R2XB	2.2 50V	[M]
C529	ECA1CAK101XB	100 16V	[M]
C530	ECA1CAK330XB	33 16V	[M]
C531	ECA1HAK010XB	1 50V	[M]
C532	ECFR1E104MR	0.1 25V	[M]
C533	ECFR1E104MR	0.1 25V	[M]
C534	ECFR1E104MR	0.1 25V	[M]
C535	ECFR1E104MR	0.1 25V	[M]
C536	ECA1CAK220XB	22 16V	[M]
C537	ECA1EAM331XB	330 25V	[M]
C538	ECBT1H221KB5	220P 50V	[M]
C539	ECKR1H103ZF5	0.01 50V	[M]
C541	ECBT1H102KB5	1000P 50V	[M]
C601	ECBT1H102KB5	1000P 50V	[M]
C602	ECA1AAM102XB	1000 10V	[M]
C603	ECBT1H561KB5	560P 50V	[M]
C604	ECBT1H561KB5	560P 50V	[M]
C605	ECBT1H561KB5	560P 50V	[M]
C606	ECBT1H561KB5	560P 50V	[M]
C607	ECBT1H561KB5	560P 50V	[M]
C608	ECBT1H561KB5	560P 50V	[M]
C609	ECBT1H561KB5	560P 50V	[M]
C610	ECBT1H101KB5	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C611	ECBT1C103MS5	0.01 16V	[M]
C612	ECBT1C103MS5	0.01 16V	[M]
C613	ECBT1H101KB5	100P 50V	[M]
C614	ECA1HAK010XB	1 50V	[M]
C615	ECA1HAK010XB	1 50V	[M]
C616	ECBT1H180JC5	18P 50V	[M]
C617	ECBT1H180JC5	18P 50V	[M]
C618	ECBT1H220JC5	22P 50V	[M]
C619	ECBT1H220JC5	22P 50V	[M]
C620	ECBT1H390J5	39P 50V	[M]
C621	ECBT1H390J5	39P 50V	[M]
C622	ECA1CAK470XB	47 16V	[M]
C623	ECBT1H101KB5	100P 50V	[M]
C624	ECBT1H101KB5	100P 50V	[M]
C625	ECBT1C103MS5	0.01 16V	[M]
C626	ECBT1H101KB5	100P 50V	[M]
C627	ECBT1C103MS5	0.01 16V	[M]
C640	ECBT1H104KB5	0.1 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUV1C104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUV1C104KBV	0.1 16V	[M]
C706	ECUV1H272KBV	2700P 50V	[M]
C707	ECUV1E273KBV	0.027 25V	[M]
C710	ECUV1H121JCV	120P 50V	[M]
C711	ECUV1C104KBV	0.1 16V	[M]
C712	ECUV1C104KBV	0.1 16V	[M]
C713	ECUV1C104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECUV1H272KBV	2700P 50V	[M]
C716	ECUV1H821KBV	820P 50V	[M]
C717	ECUV1E104ZFV	0.1 25V	[M]
C718	ECUV1A224KBV	0.22 10V	[M]
C721	ECUV1H100JCV	10 50V	[M]
C722	ECUV1H100JCV	10 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUV1C104KBV	0.1 16V	[M]
C725	ECUV1H102KBV	1000P 50V	[M]
C726	ECUV1H102KBV	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C730	ECUV1E104ZFV	0.1 25V	[M]
C731	ECA0JAK221XI	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUV1C104KBV	0.1 16V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUV1E104ZFV	0.1 25V	[M]
C736	ECUV1E104ZFV	0.1 25V	[M]
C737	ECUV1E104ZFV	0.1 25V	[M]
C738	ECUV1C563KBV	0.056 16V	[M]
C739	ECUV1H222KBV	2200P 50V	[M]
C742	ECUV1E273KBV	0.027 25V	[M]
C743	ECUV1E104ZFV	0.1 25V	[M]
C744	ECUV1H562KBV	5600P 50V	[M]

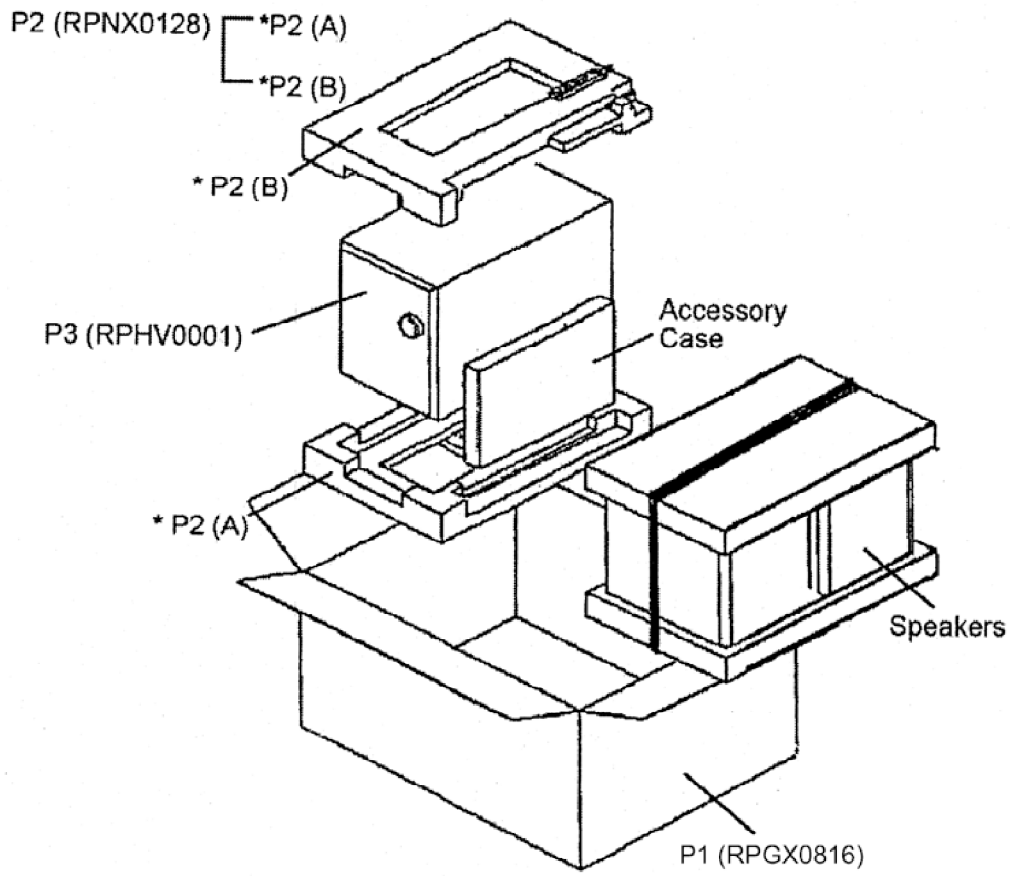
Ref. No.	Part No.	Part Name & Description	Remarks
C745	ECUV1E104ZFV	0.1 25V	[M]
C747	ECUV1H181JCV	180P 50V	[M]
C749	ECUV1H222KBV	2200P 50V	[M]
C750	ECUV1C104KBV	0.1 16V	[M]
C751	ECUV1C104KBV	0.1 16V	[M]
C752	ECUV1H152KBV	1500P 50V	[M]
C753	ECUV1H471KBV	470P 50V	[M]
C754	ECUV1H471KBV	470P 50V	[M]
C769	ECUV1A224KBV	0.22 10V	[M]
C826	ECBT1H102KB5	1000P 50V	[M]
C827	ECBT1H102KB5	1000P 50V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	ECBT1H102KB5	1000P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]
C1104	ECFR1C273KR	0.027 16V	[M]
C1105	ECBT1H821KB5	820P 50V	[M]
C1106	ECA1HAK2R2XB	2.2 50V	[M]
C1107	ECBT1C152KR5	1500P 16V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1121	ECBT1H102KB5	1000P 50V	[M]
C1122	ECBT1H103KB5	0.01 50V	[M]
C1123	ECBT1H681KB5	680P 50V	[M]
C1201	ECA1HAK010XB	1 50V	[M]
C1202	ECBT1H102KB5	1000P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	ECFR1C273KR	0.027 16V	[M]
C1205	ECBT1H821KB5	820P 50V	[M]
C1206	ECA1HAK2R2XB	2.2 50V	[M]
C1207	ECBT1H152KB5	1500P 50V	[M]
C1208	ECA1CAK100XB	10 16V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]
C1221	ECBT1H102KB5	1000P 50V	[M]
C1222	ECBT1H103KB5	0.01 50V	[M]
C1223	ECBT1H681KB5	680P 50V	[M]
C1301	ECA1HAK0R1XB	0.1 50V	[M]
C1302	ECFR1C333KR	0.033 16V	[M]
C1303	ECFR1E333KR	0.033 25V	[M]
C1304	ECA1HAK4R7XB	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1306	ECA1CAK100XB	10 16V	[M]
C1307	ECA1AAK221XQ	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1309	ECA1CAK100XB	10 16V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	ECBT1C332KR5	3300P 16V	[M]
C1314	ECBT1C222KR5	2200P 16V	[M]
C1315	ECBT1C222KR5	2200P 16V	[M]
C1316	ECBT1H102KB5	1000P 50V	[M]
C1317	ECBT1H102KB5	1000P 50V	[M]
C1318	ECQV1H473JZ3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]
C1320	ECA1HAK010XB	1 50V	[M]
C1321	ECQP1472JZT	4700P 100V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1322	ECQP2A102JZT	1000P 100V	[M]
C1323	ECEA1HN010SB	1 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1325	ECBT1C103MS5	0.01 16V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
C1327	ECBT1C103KS5	0.01 16V	[M]
		CHIP JUMPER	
RJ701	ERJ3GEY0R00V	0 1/16W	[M]
RJ702	ERJ3GEY0R00V	0 1/16W	[M]
RJ703	ERJ3GEY0R00V	0 1/16W	[M]
RJ709	ERJ3GEY0R00V	0 1/16W	[M]
RJ710	ERJ3GEY0R00V	0 1/16W	[M]
RJ711	ERJ3GEY0R00V	0 1/16W	[M]
RJ712	ERJ3GEY0R00V	0 1/16W	[M]
RJ713	ERJ3GEY0R00V	0 1/16W	[M]
RJ714	ERJ3GEY0R00V	0 1/16W	[M]
RJ715	ERJ3GEY0R00V	0 1/16W	[M]
RJ716	ERJ3GEY0R00V	0 1/16W	[M]
RJ722	ERJ3GEY0R00V	0 1/16W	[M]
RJ723	ERJ3GEY0R00V	0 1/16W	[M]
RJ724	ERJ3GEY0R00V	0 1/16W	[M]
RJ726	ERJ3GEY0R00V	0 1/16W	[M]
RJ727	ERJ3GEY0R00V	0 1/16W	[M]
RJ728	ERJ3GEY0R00V	0 1/16W	[M]
RJ731	ERJ3GEY0R00V	0 1/16W	[M]
RJ732	ERJ3GEY0R00V	0 1/16W	[M]
RJ734	ERJ3GEY0R00V	0 1/16W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

17.5. Packaging Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0816	PACKING CASE	[M]
P2	RPNX0128	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	RAK-SC981WK	REMOTE CONTROL	[M]
A1-1	251200F1F	R/C BATTERY COVER	[M]
A2	RJA0078-X	AC CORD	[M] ⚠
A3	RQT6014-Z	O/I BOOK (Ko)	[M]
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	RSA0033A	AM LOOP ANTENNA	[M]

17.6. Packaging



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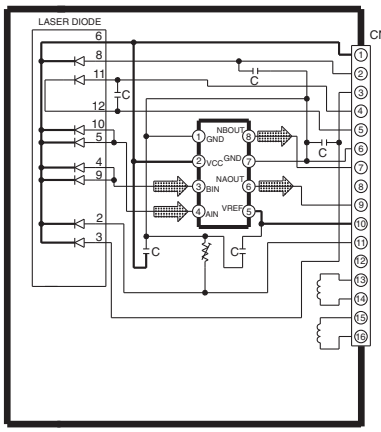
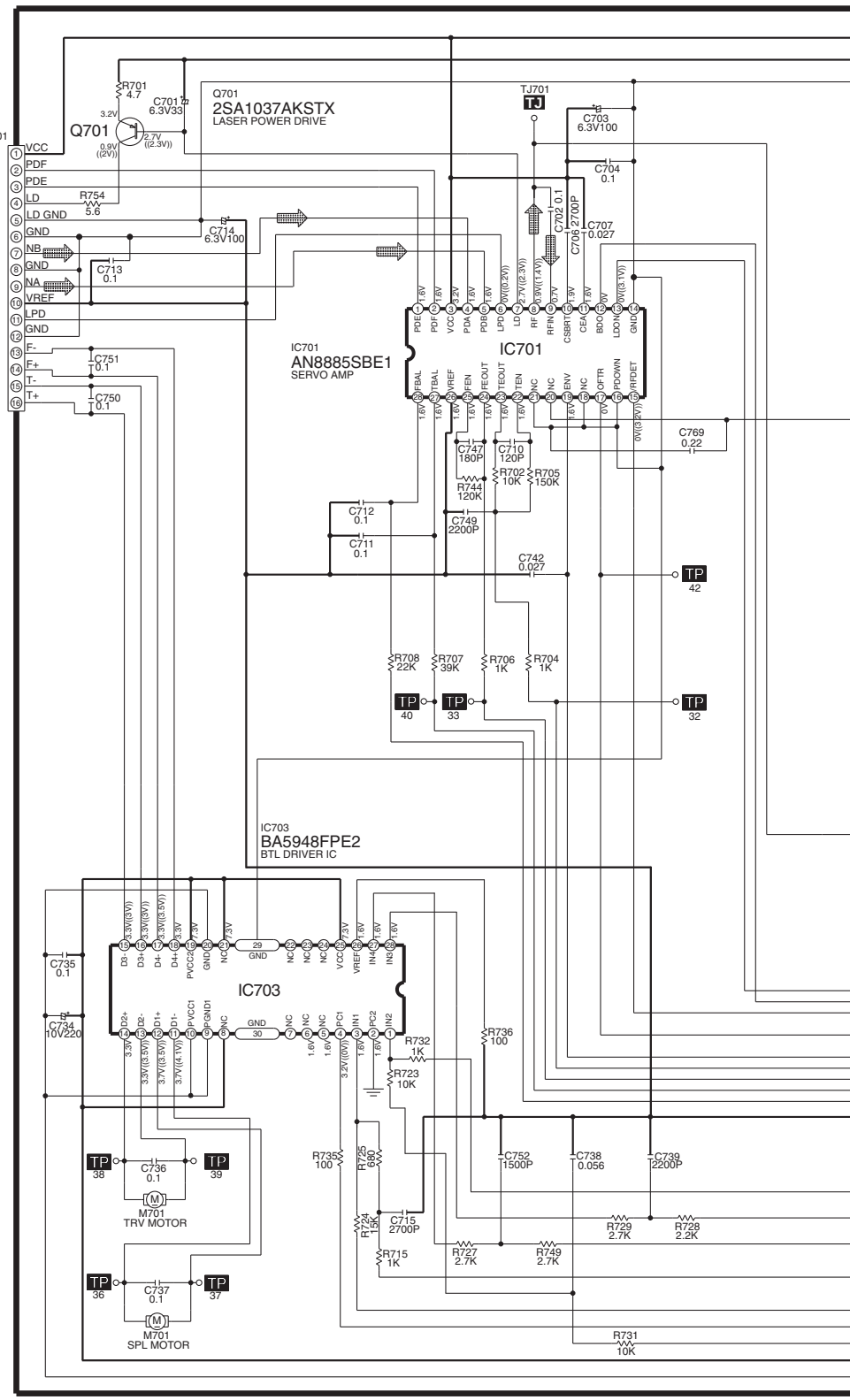
SCHEMATIC DIAGRAM -1

—— : +B SIGNAL LINE ⇒ : CD SIGNAL LINE

A CD SERVO CIRCUIT

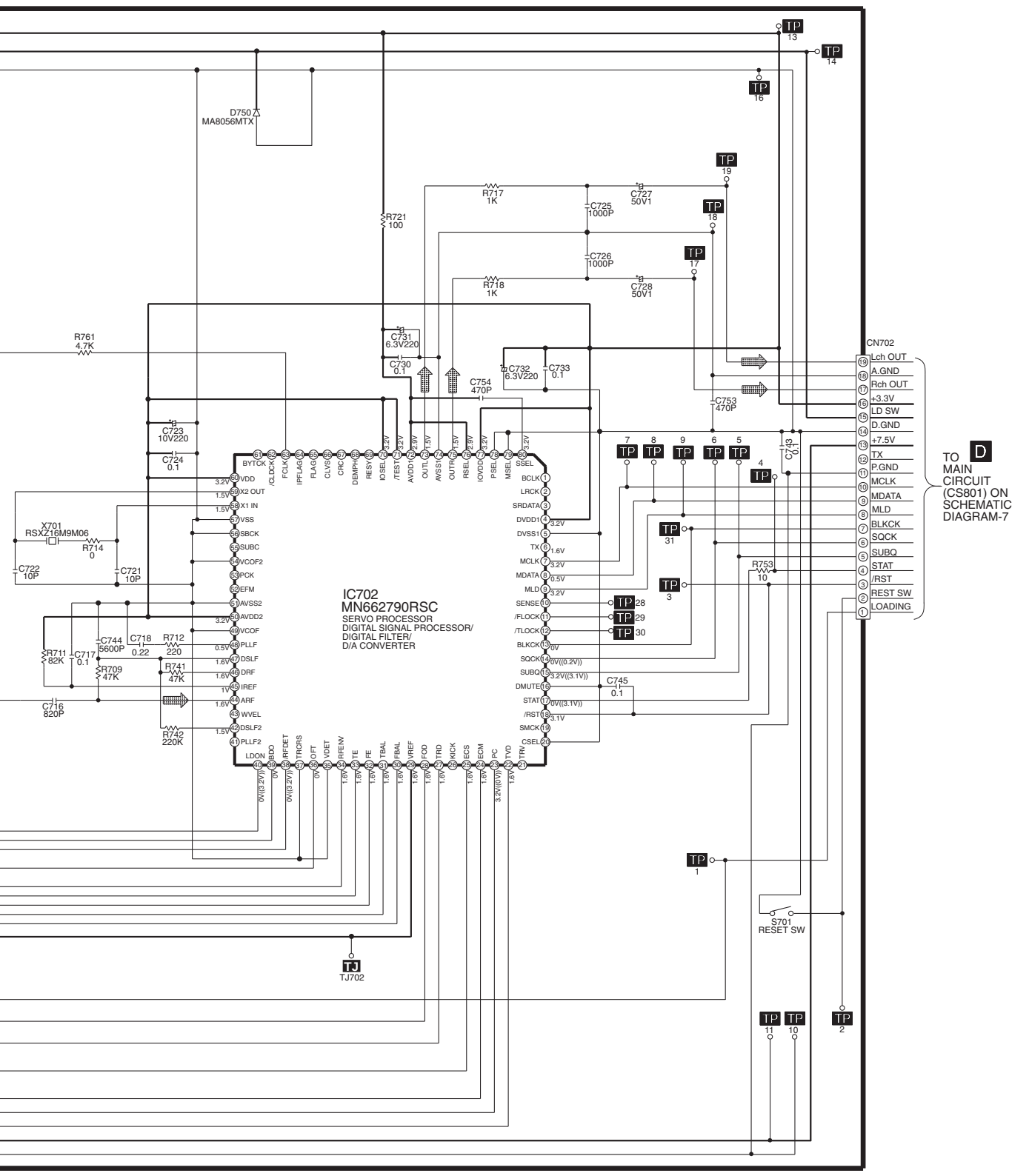
OPTICAL PICKUP CIRCUIT





SCHEMATIC DIAGRAM - 2

—— : +B SIGNAL LINE ⇨ : CD SIGNAL LINE



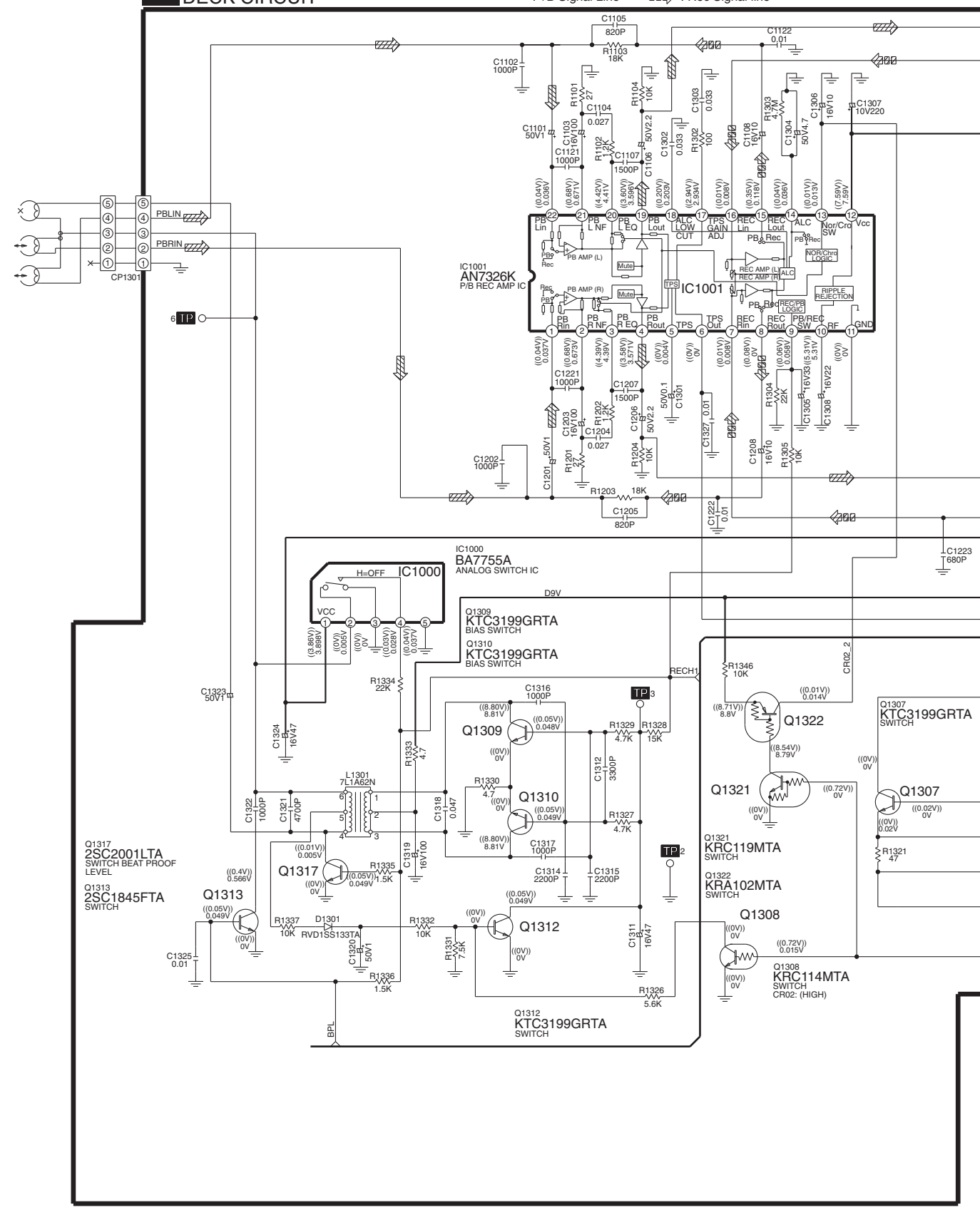
SCHEMATIC DIAGRAM-3

B DECK CIRCUIT

: Playback Signal line

: Rec Signal line

: +B Signal Line

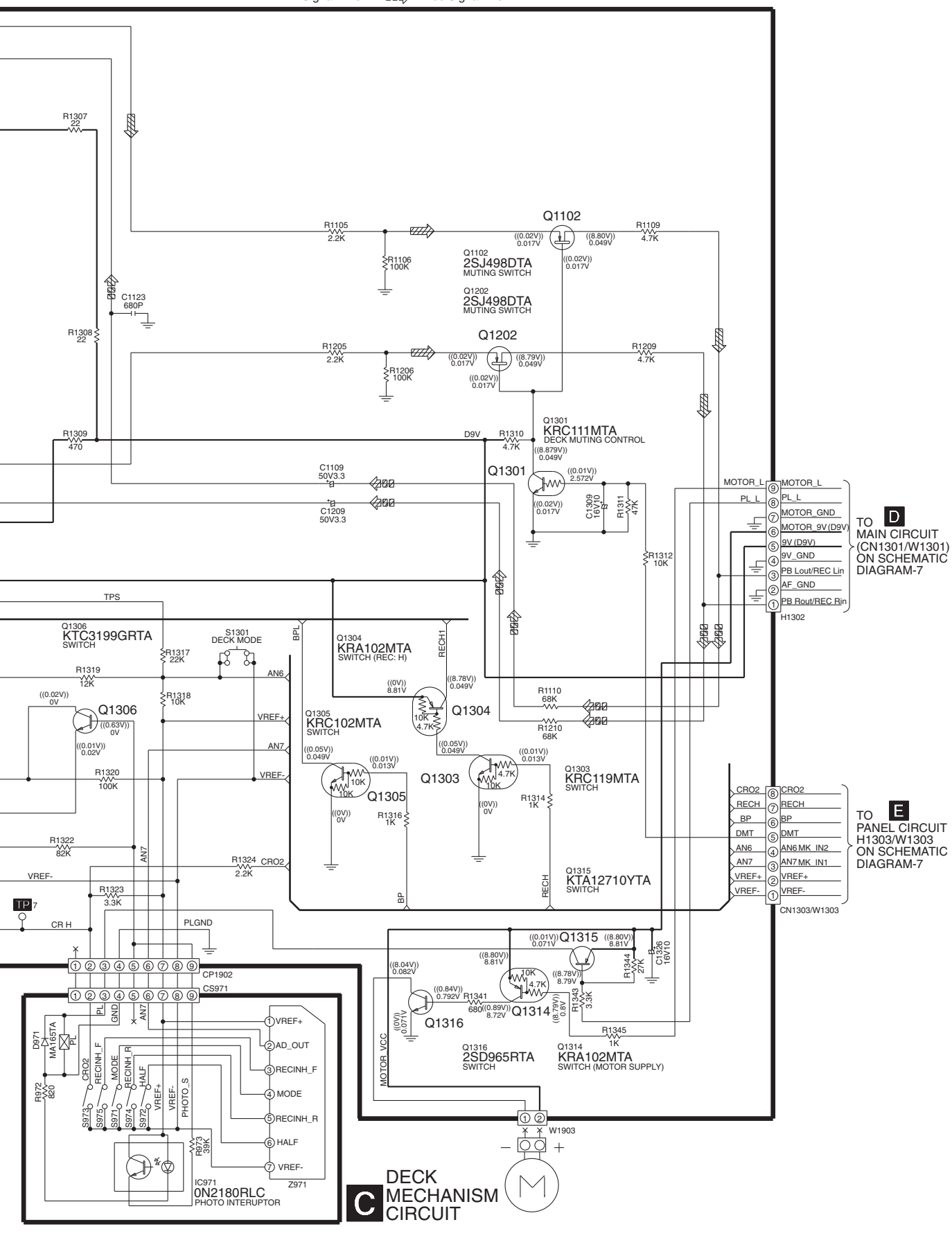


SCHEMATIC DIAGRAM-4

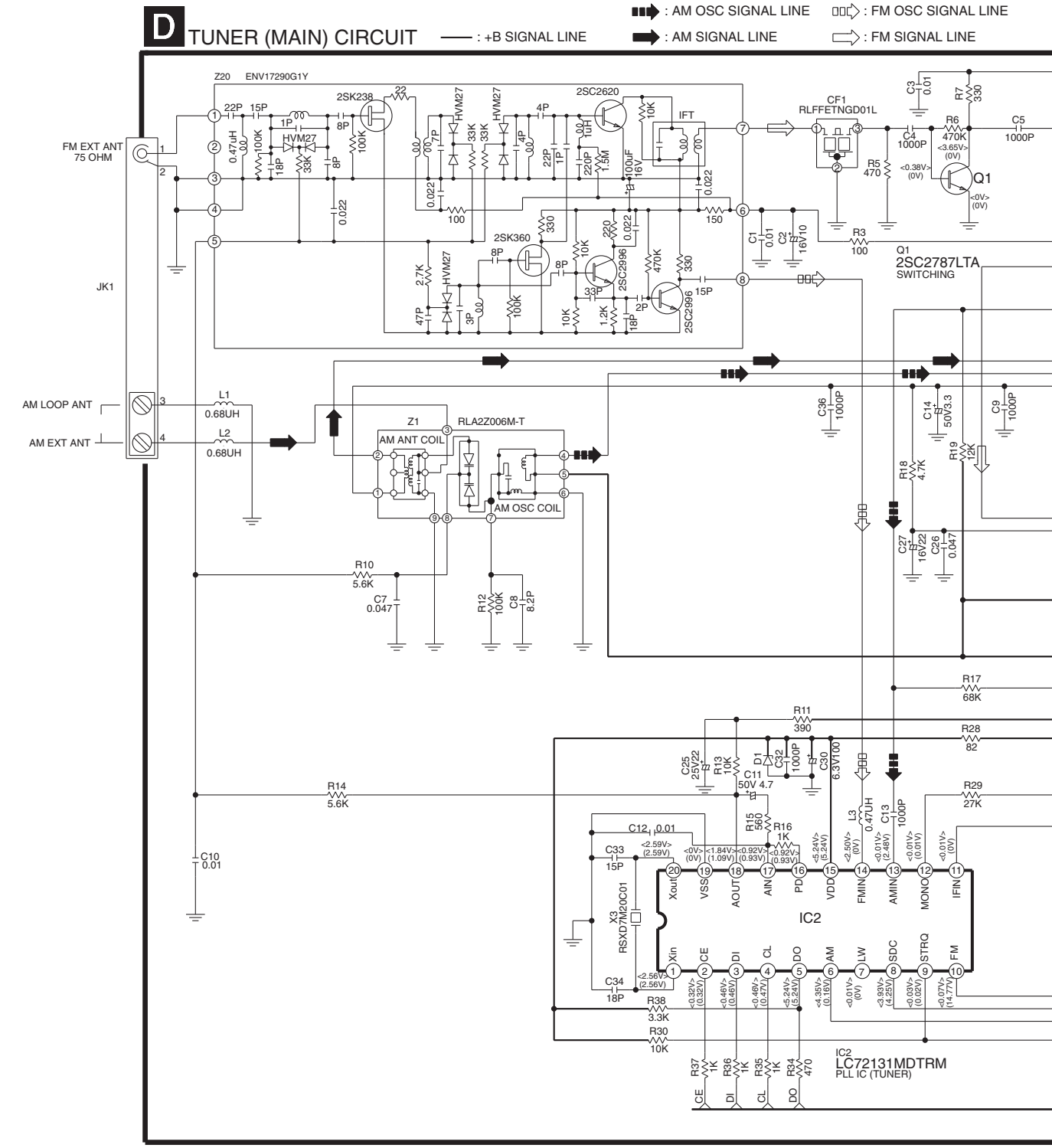
: Playback Signal line

: +B Signal Line

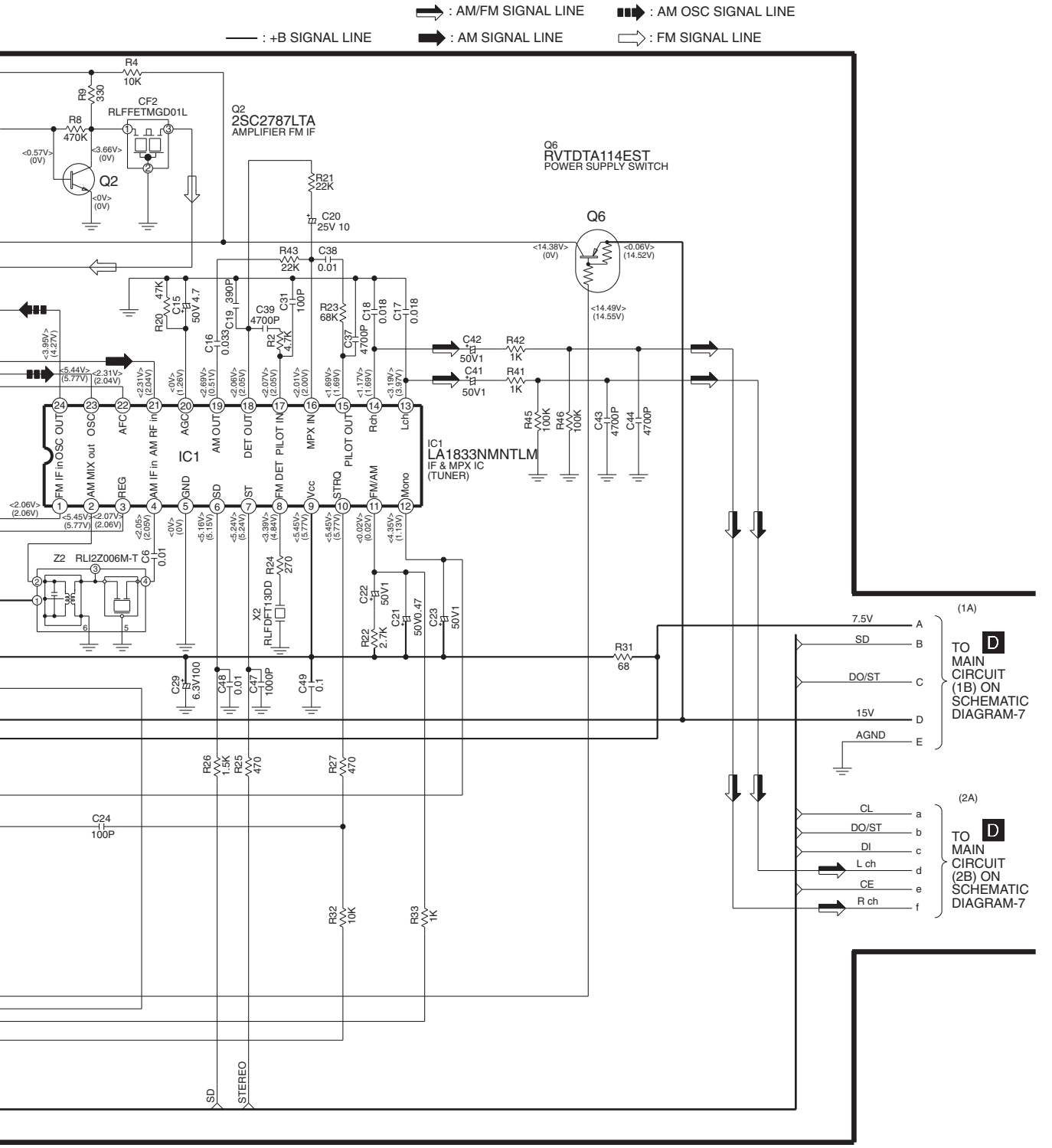
: Rec Signal line



SCHEMATIC DIAGRAM-5



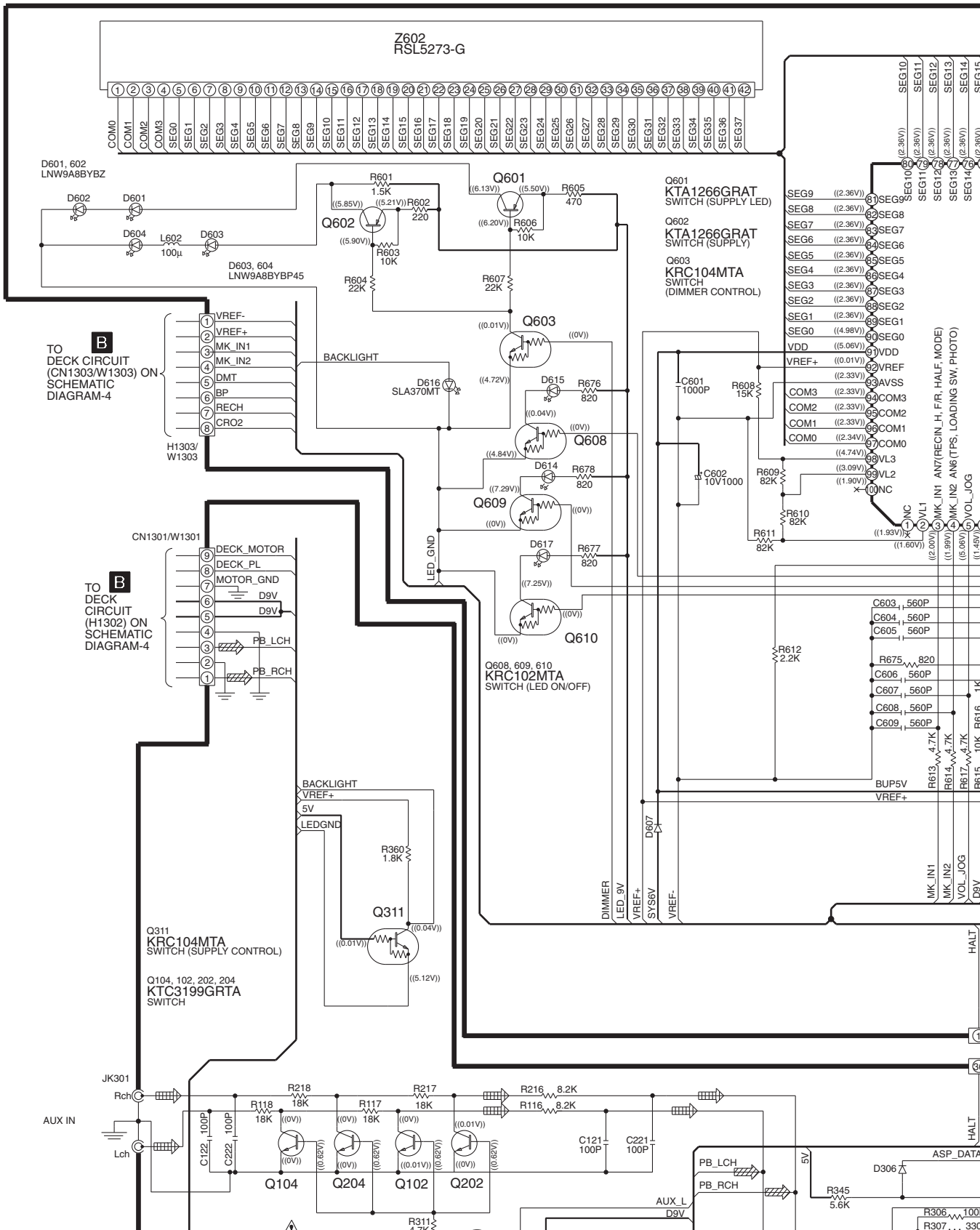
SCHEMATIC DIAGRAM-6

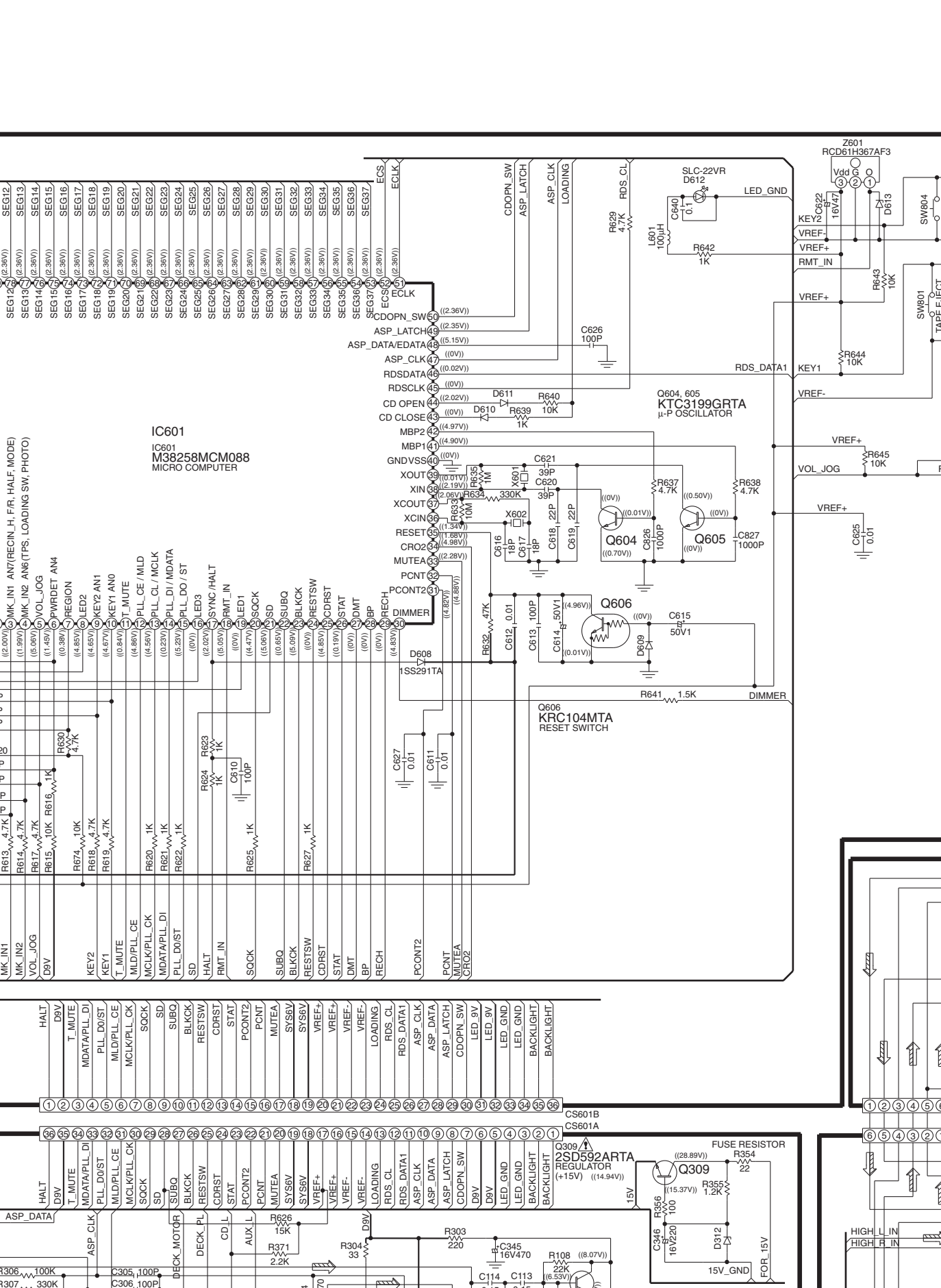


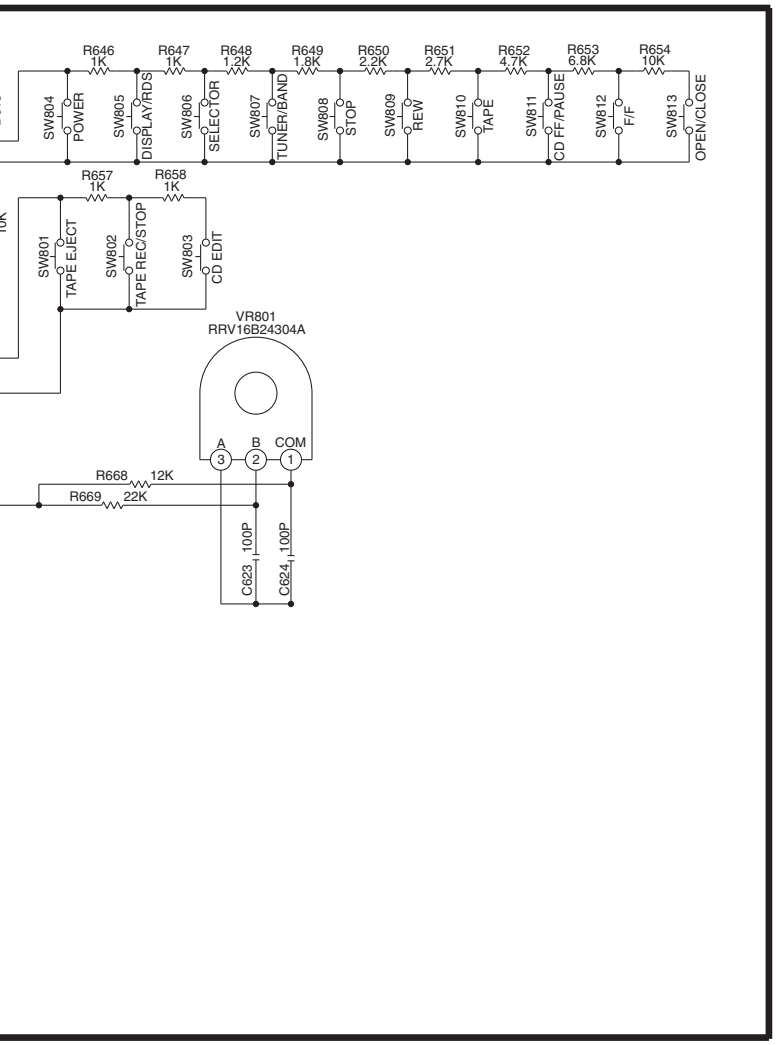
SCHEMATIC DIAGRAM-7

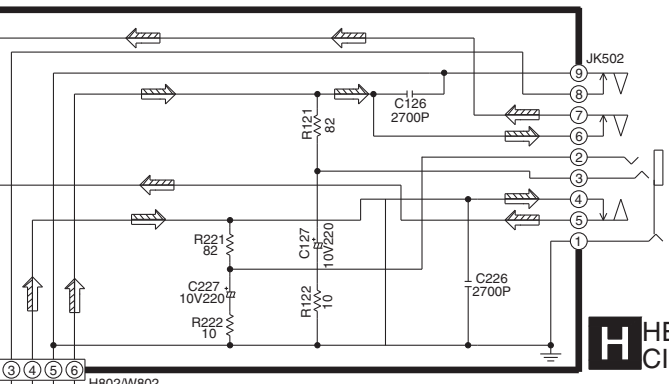
E PANEL CIRCUIT

: PLAYBACK SIGNAL LINE
: +B SIGNAL LINE
: CD SIGNAL LINE
: AM/FM SIGNAL LINE
: AUX SIGNAL LINE
: MAIN SIGNAL LINE

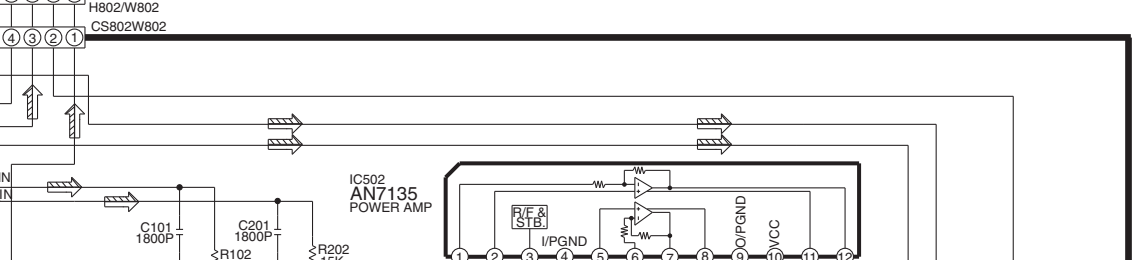


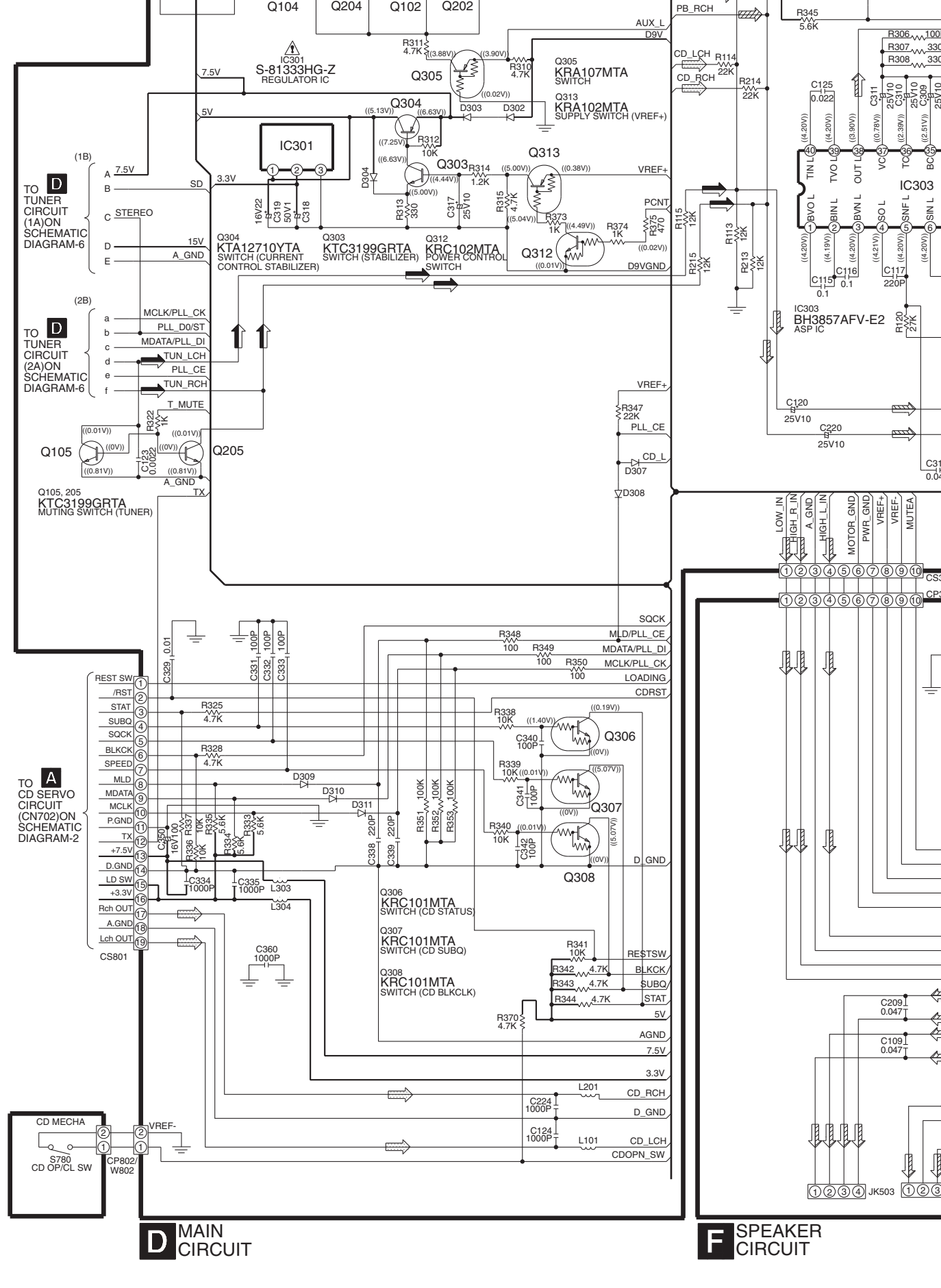

IC601
M38258MCM088
MICRO COMPUTER
Q604, 605
KTC3199GRTA
μ-P OSCILLATOR
Q606
KRC104MTA
RESET SWITCH
Q604
Q605
Q606
Z601
RCD61H367AF3
SLC-22VR
D612
D608
1SS291TA
D609
D610
D611
D613
2SD592ARTA
REGULATOR
(+15V)
Q309
FUSE RESISTOR
R354
22
R355
1.2K
R356
100
C346
16V220
D312
15V_GND
FOR_15V
LED_GND
KEY2
KEY1
VREF+
VREF-
RMT_IN
VOL_JOG
RDS_DATA1
DIMMER
HIGH_L_IN
HIGH_R_IN
CS601B
CS601A
ECLK
CDOPN_SW
ASP_LATCH
ASP_DATA/EDATA
ASP_CLK
RDSDATA
RDSCLK
CD OPEN
CD CLOSE
MBP2
MBP1
GNDVSS
XOUT
XIN
XCOUT
XCIN
RESET
CRO2
MUTEA
PCNT
PCONT2
DIMMER
LOADING
RDS_CL
R640
10K
R639
1K
R629
4.7K
L601
100μH
C640
0.1
C622
16V47
R642
1K
R643
10K
R644
10K
R645
10K
SW804
SW801
TAPE F.FCT
C626
100P
C621
39P
C620
39P
C618
22P
C619
22P
C616
18P
C617
18P
C826
1000P
C827
1000P
C625
0.01
C627
0.01
C611
0.01
C612
0.01
C615
50V1
C614
50V1
C613
100P
R632
47K
R635
1M
R634
330K
R633
10M
R637
4.7K
R638
4.7K
X601
X602
R630
4.7K
R623
1K
R624
1K
C610
100P
R625
1K
R626
15K
R371
2.2K
R304
33
R303
220
C345
16V470
R108
22K
C114
C113
R306
100K
R307
330K
C305
100P
C306
100P
R613
4.7K
R614
4.7K
R617
4.7K
R615
10K
R616
1K
R674
10K
R618
4.7K
R619
4.7K
R620
1K
R621
1K
R622
1K
R627
1K
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
SEG22
SEG23
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG30
SEG31
SEG32
SEG33
SEG34
SEG35
SEG36
SEG37
ECS
ECLK
AN7(RECIN_H, F/R, HALF, MODE)
AN6(TPS, LOADING SW, PHOTO)
AN4
AN1
AN0
PWRDET
REGION
LED2
KEY2
KEY1
T_MUTE
PLL_CE / MLD
PLL_CL / MCLK
PLL_DI / MDATA
PLL_DO / ST
LED3
SYNC /HALT
RMT_IN
LED1
SQCK
SD
SUBQ
BLKCK
RESTSW
CDRST
STAT
DMT
BP
RECH
HALT
D9V
T_MUTE
MDATA/PLL_DI
PLL_DO/ST
MLD/PLL_CE
MCLK/PLL_CK
SQCK
SD
SUBQ
BLKCK
RESTSW
CDRST
STAT
PCONT2
PCNT
MUTEA
SYS6V
VREF+
VREF-
LOADING
RDS_CL
RDS_DATA1
ASP_CLK
ASP_DATA
ASP_LATCH
CDOPN_SW
LED_9V
LED_GND
BACKLIGHT
DECK_MOTOR
DECK_PL
CD_L
AUX_L

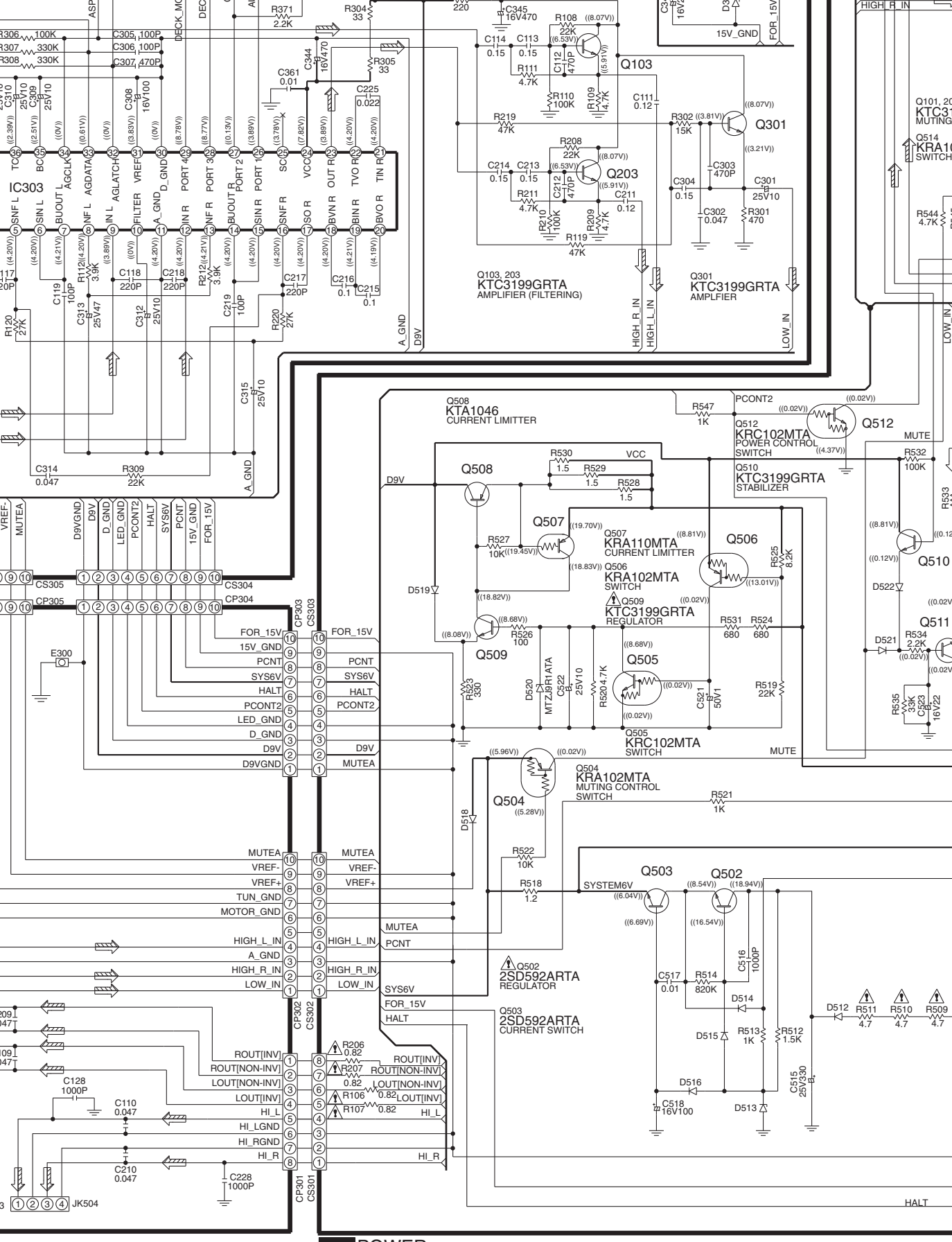




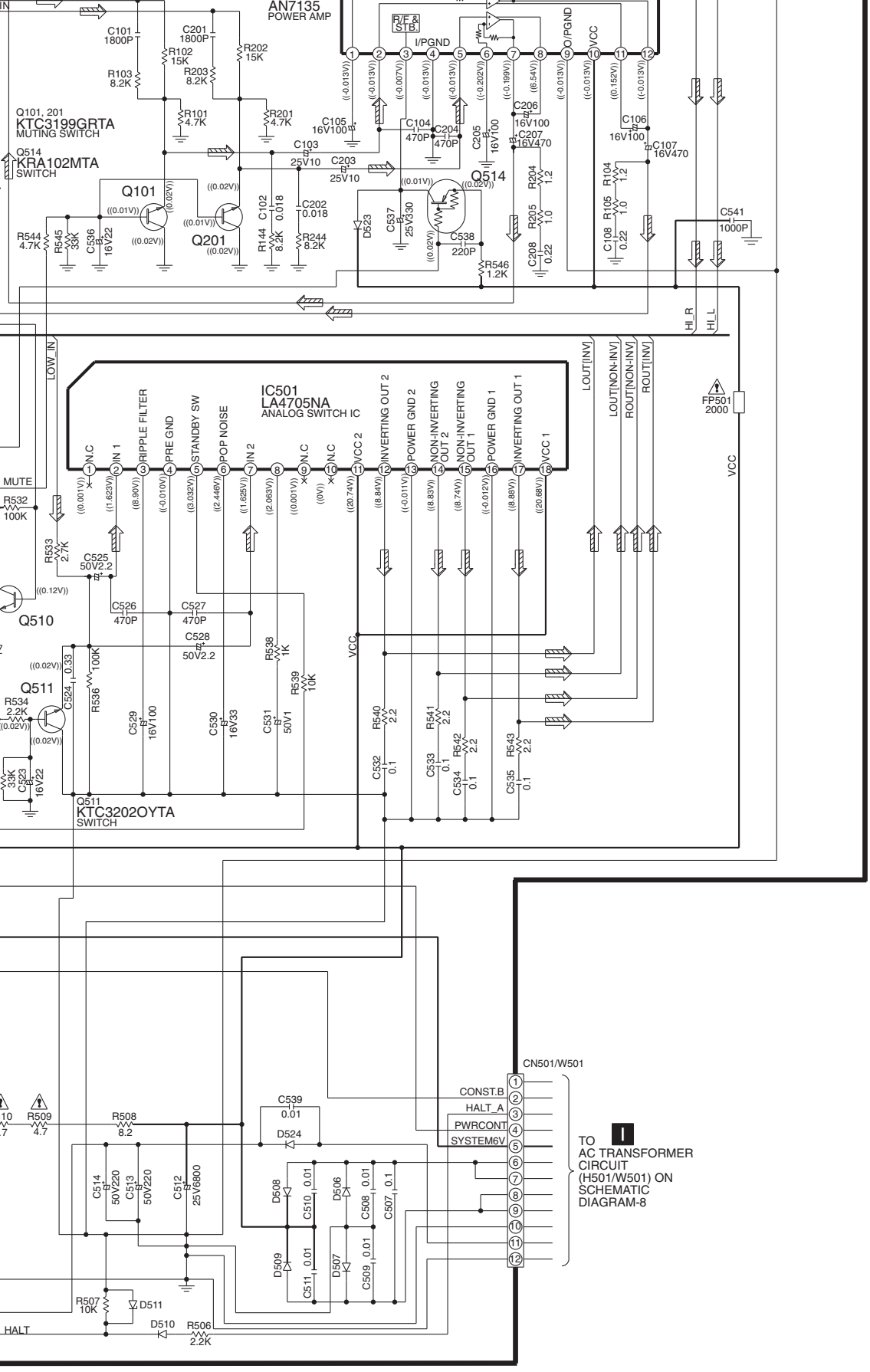
H HEADPHONE CIRCUIT



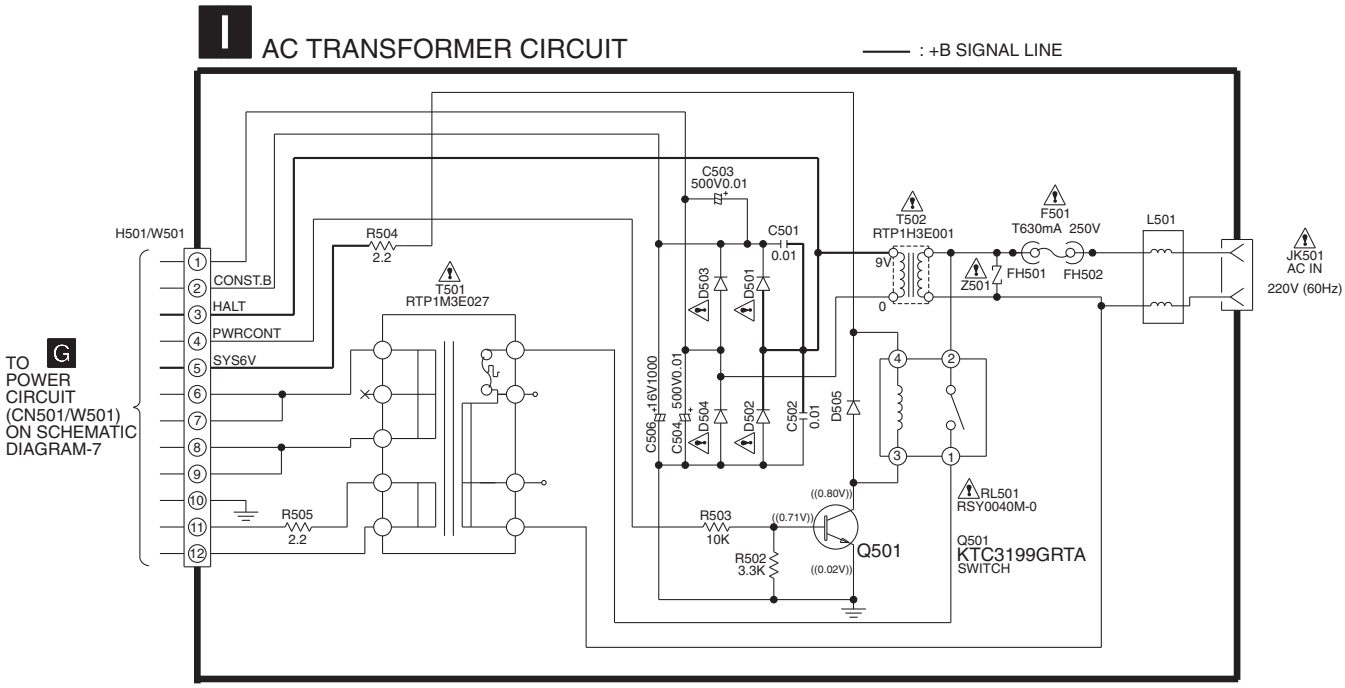

Q104
Q204
Q102
Q202
IC301
S-81333HG-Z
REGULATOR IC
7.5V
5V
Q305
KRA107MTA
SWITCH
Q313
KRA102MTA
SUPPLY SWITCH (VREF+)
Q304
Q303
Q313
IC301
D303
D302
D304
R312 10K
R311 4.7K
R310 4.7K
R314 1.2K
R313 330
R315 4.7K
R373 1K
R374 1K
R375 470
C317 25V10
C318
C319 50V1
C320 16V22
PB_RCH
AUX_L
D9V
CD_LCH
CD_RCH
R114 22K
R214 22K
R345 5.6K
C125 0.022
R306 100
R307 330
R308 330
C311 25V10
C310 25V10
C309 25V10
IC303
TIN L
TVO L
OUT L
VC
TCO
BCO
BVO L
BIN L
BVN L
SO L
SNF L
SIN L
C115 0.1
C116 0.1
C117 220P
IC303
BH3857AFV-E2
ASP IC
R120 27K
VREF+
R347 22K
PLL_CE
CD_L
D307
D308
C120 25V10
C220 25V10
(1B)
TO D TUNER CIRCUIT (1A)ON SCHEMATIC DIAGRAM-6
A 7.5V
B SD
C STEREO
D 15V
E A_GND
3.3V
Q304
KTA12710YTA
SWITCH (CURRENT CONTROL STABILIZER)
Q303
KTC3199GRTA
SWITCH (STABILIZER)
Q312
KRC102MTA
POWER CONTROL SWITCH
Q312
D9VGND
PCNT
R115 12K
R113 12K
R215 12K
R213 12K
(2B)
TO D TUNER CIRCUIT (2A)ON SCHEMATIC DIAGRAM-6
a MCLK/PLL_CK
b PLL_D0/ST
c MDATA/PLL_DI
d TUN_LCH
e PLL_CE
f TUN_RCH
T_MUTE
R322 1K
C323 0.022
Q105
Q205
A_GND
TX
Q105, 205
KTC3199GRTA
MUTING SWITCH (TUNER)
LOW_IN
HIGH_R_IN
A_GND
HIGH_L_IN
MOTOR_GND
PWR_GND
VREF+
VREF-
MUTEA
CS3
CP1
SQCK
MLD/PLL_CE
MDATA/PLL_DI
MCLK/PLL_CK
LOADING
CDRST
R348 100
R349 100
R350 100
C329 0.01
C331 100P
C332 100P
C333 100P
REST SW
/RST
STAT
SUBQ
SQCK
BLKCK
SPEED
MLD
MDATA
MCLK
P.GND
TX
+7.5V
D.GND
LD SW
+3.3V
Rch OUT
A.GND
Lch OUT
CS801
R325 4.7K
R328 4.7K
D309
D310
D311
R338 10K
R339 10K
R340 10K
Q306
Q307
Q308
C340 100P
C341 100P
C342 100P
R351 100K
R352 100K
R353 100K
C338 220P
C339 220P
C350 16V100
R336 10K
R337 10K
R335 5.6K
R334 5.6K
R333 5.6K
C334 1000P
C335 1000P
L303
L304
C360 1000P
D_GND
Q306
KRC101MTA
SWITCH (CD STATUS)
Q307
KRC101MTA
SWITCH (CD SUBQ)
Q308
KRC101MTA
SWITCH (CD BLKCLK)
R341 10K
R342 4.7K
R343 4.7K
R344 4.7K
R370 4.7K
RESTSW
BLKCK
SUBQ
STAT
5V
AGND
7.5V
3.3V
L201
CD_RCH
C224 1000P
C124 1000P
L101
CD_LCH
CDOPN_SW
CD MECHA
S780
CD OP/CL SW
CP802/ W802
VREF-
C209 0.047
C109 0.047
JK503
TO A CD SERVO CIRCUIT (CN702)ON SCHEMATIC DIAGRAM-2
D MAIN CIRCUIT
F SPEAKER CIRCUIT

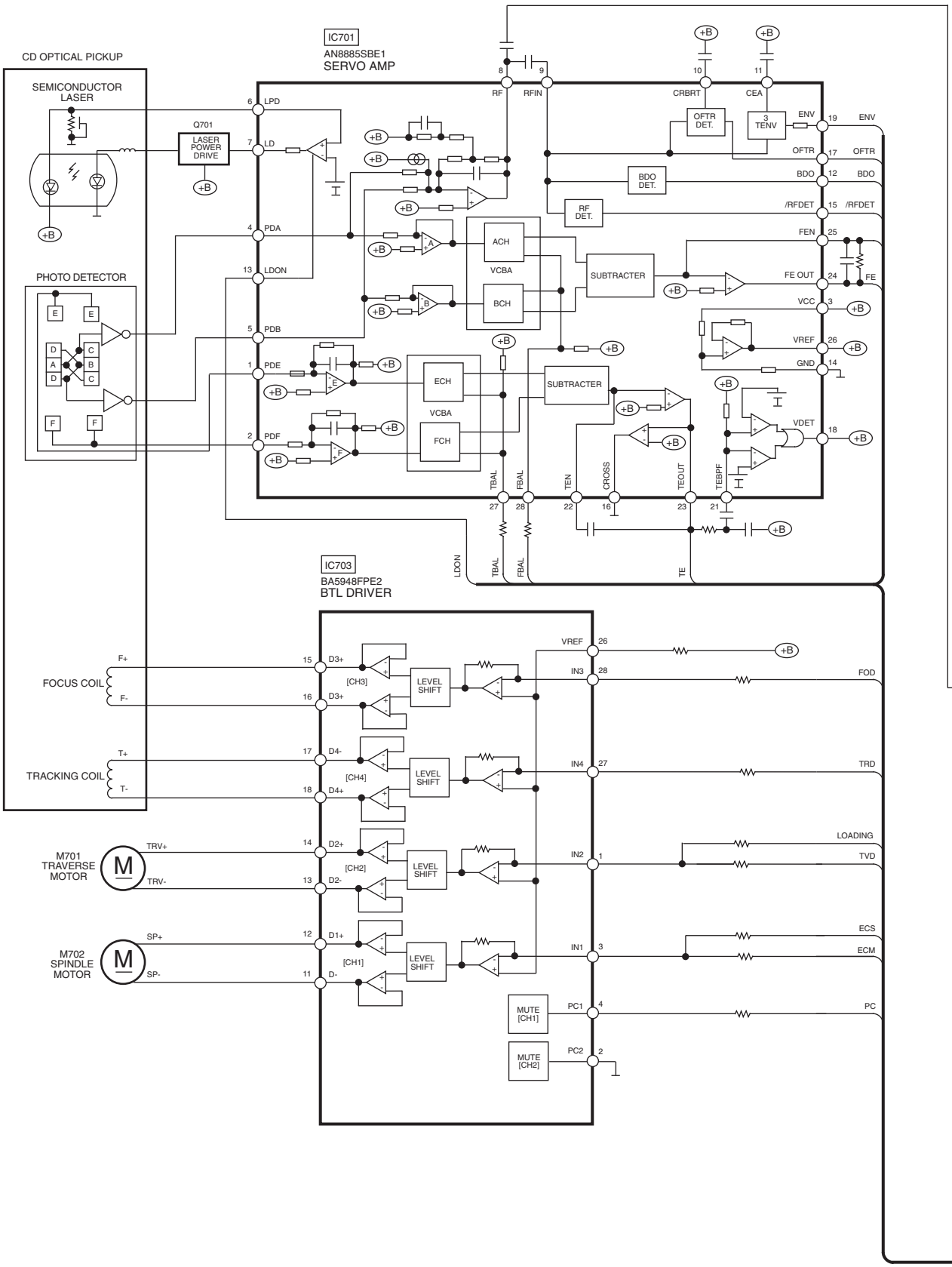


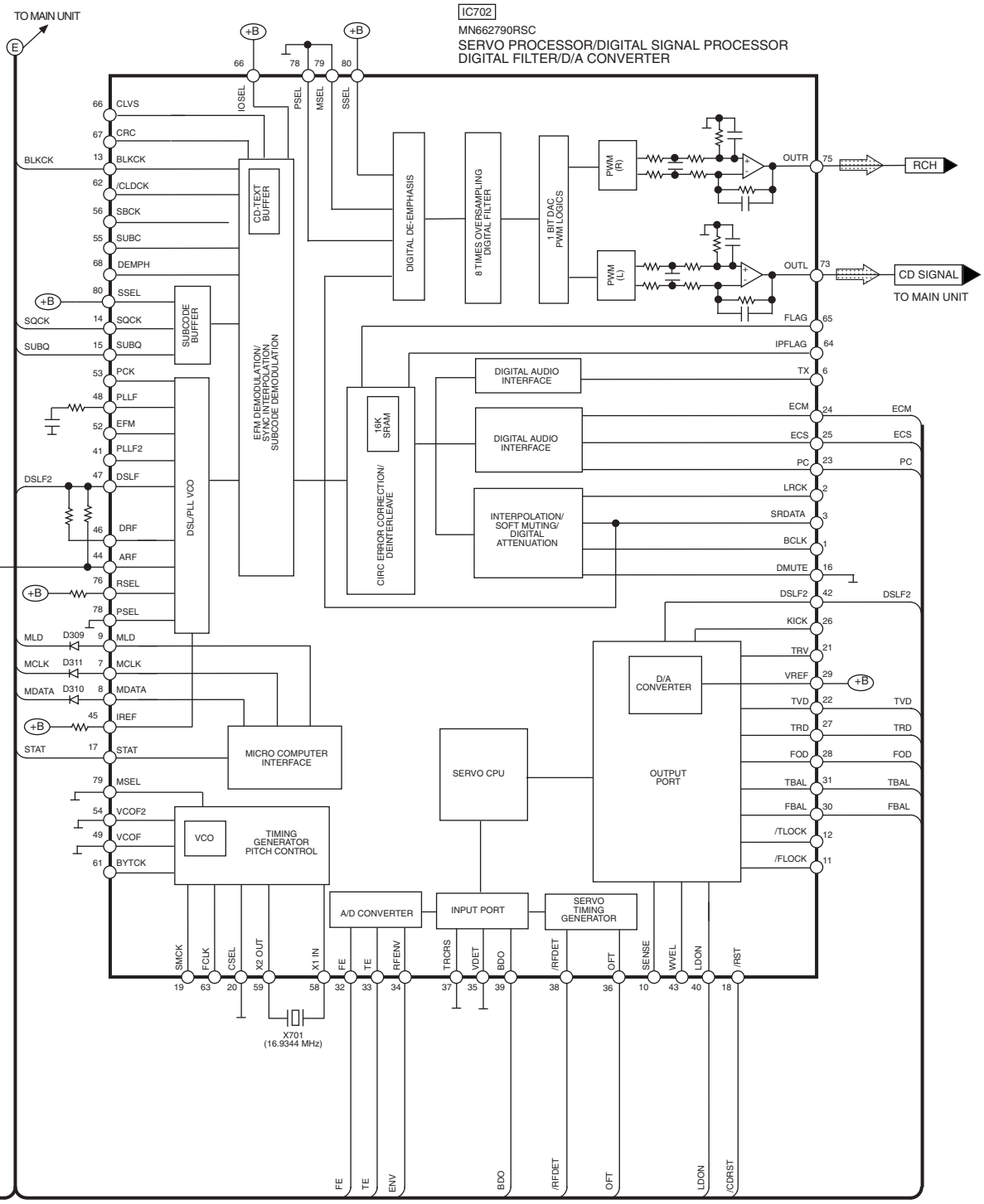
G POWER CIRCUIT

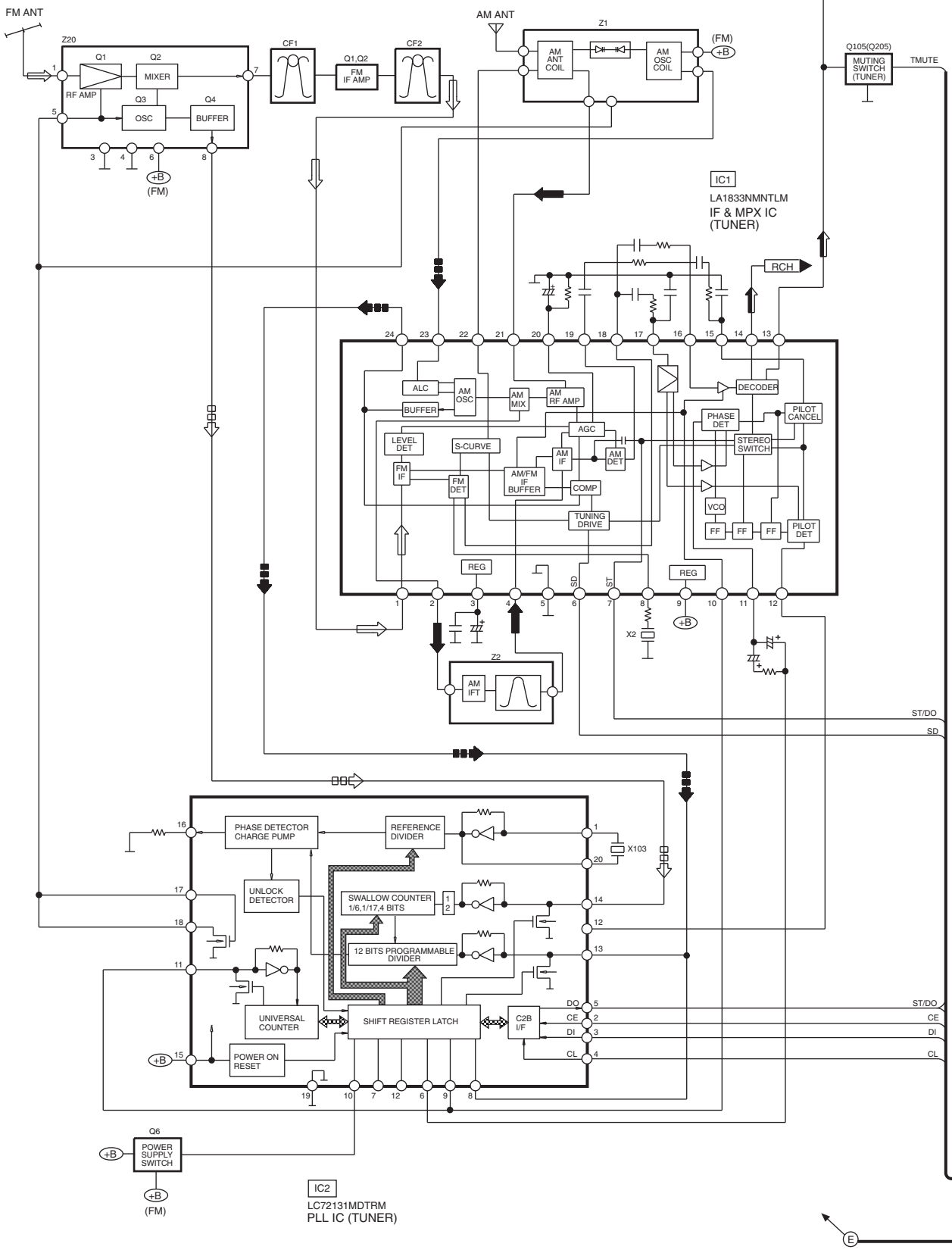

AN7135
POWER AMP
R/F & STB.
I/PGND
O/PGND
VCC
C101 1800P
C201 1800P
R102 15K
R202 15K
R103 8.2K
R203 8.2K
R101 4.7K
R201 4.7K
Q101, 201
KTC3199GRTA
MUTING SWITCH
Q514
KRA102MTA
SWITCH
C105 16V100
C104 470P
C204 470P
C205 16V100
C206 16V100
C207 16V470
C106 16V100
C107 16V470
C103 25V10
C203 25V10
Q514
R204 1.2
R104 1.2
R105 1.0
C108 0.22
C541 1000P
Q101
Q201
C102 0.018
C202 0.018
R144 8.2K
R244 8.2K
R544 4.7K
R545 33K
C536 16V22
D523
C537 25V330
C538 220P
R546 1.2K
C208 0.22
HI_R
HI_L
LOW_IN
IC501
LA4705NA
ANALOG SWITCH IC
N.C
IN 1
RIPPLE FILTER
PRE GND
STANDBY SW
POP NOISE
IN 2
N.C
N.C
VCC 2
INVERTING OUT 2
POWER GND 2
NON-INVERTING OUT 2
NON-INVERTING OUT 1
POWER GND 1
INVERTING OUT 1
VCC 1
LOUT[INV]
LOUT[NON-INV]
ROUT[NON-INV]
ROUT[INV]
FP501 2000
VCC
MUTE
R532 100K
R533 2.7K
C525 50V2.2
Q510
C526 470P
C527 470P
C528 50V2.2
R538 1K
R539 10K
R536 100K
C524 0.33
Q511
R534 2.2K
C529 16V100
C530 16V33
C531 50V1
R540 2.2
R541 2.2
R542 2.2
R543 2.2
C532 0.1
C533 0.1
C534 0.1
C535 0.1
C523 16V22
Q511
KTC3202OYTA
SWITCH
CN501/W501
CONST.B
HALT_A
PWRCONT
SYSTEM6V
TO AC TRANSFORMER CIRCUIT (H501/W501) ON SCHEMATIC DIAGRAM-8
R509 4.7
R508 8.2
C539 0.01
D524
C514 50V220
C513 50V220
C512 25V6800
D508
C510 0.01
D506
C508 0.01
C507 0.1
D509
C511 0.01
D507
C509 0.01
R507 10K
D511
D510
R506 2.2K
HALT

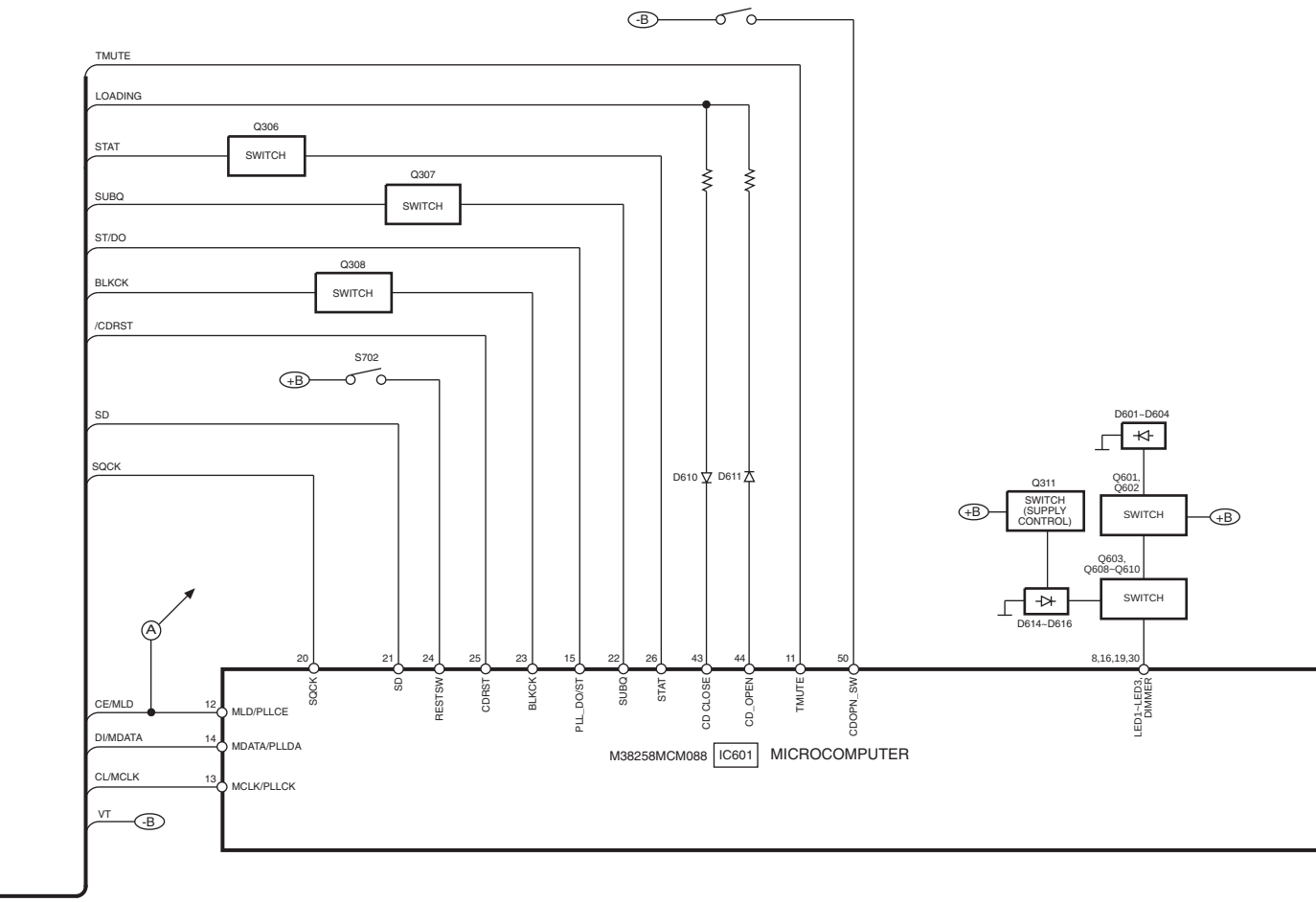
SCHEMATIC DIAGRAM-8

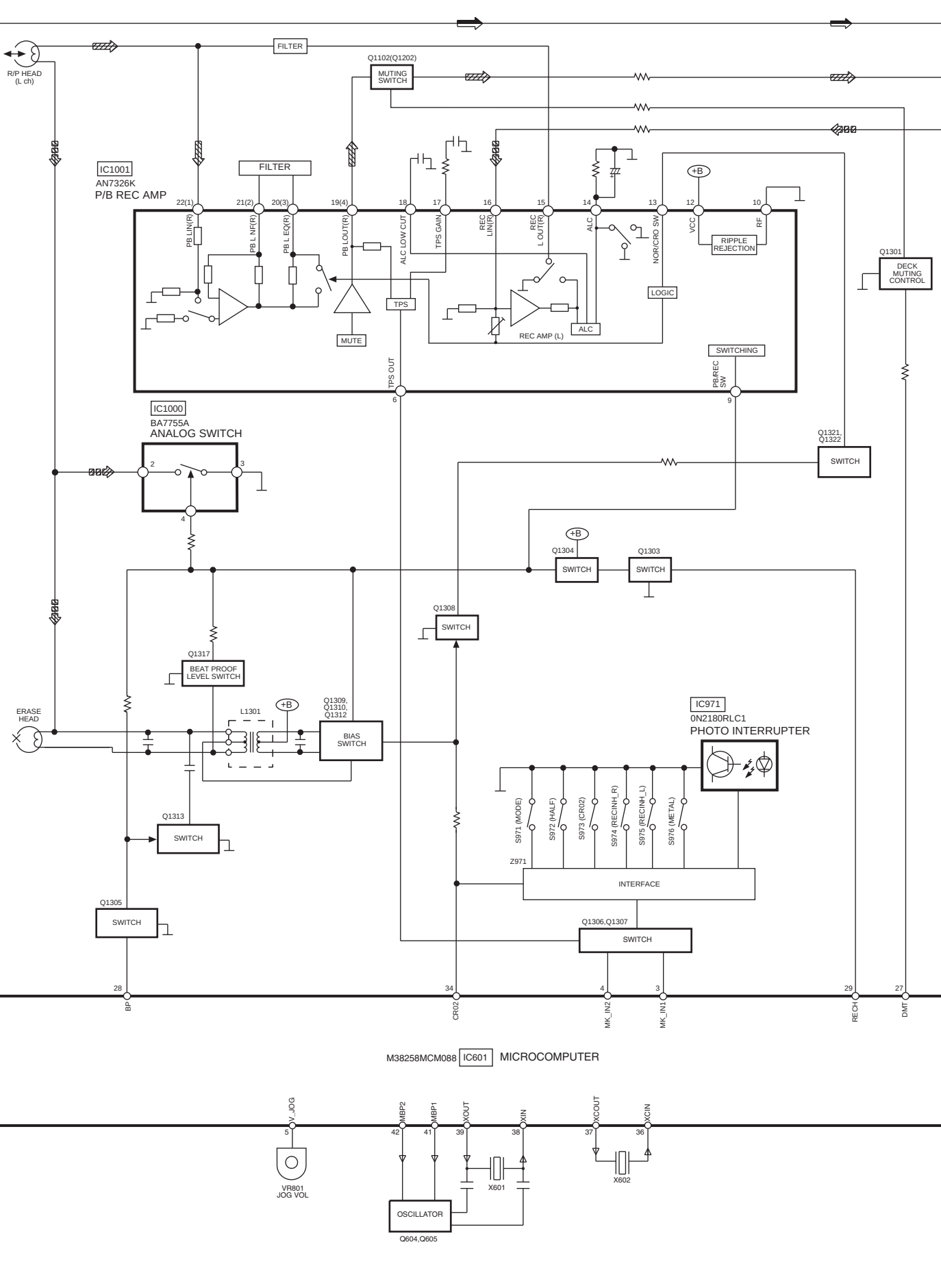


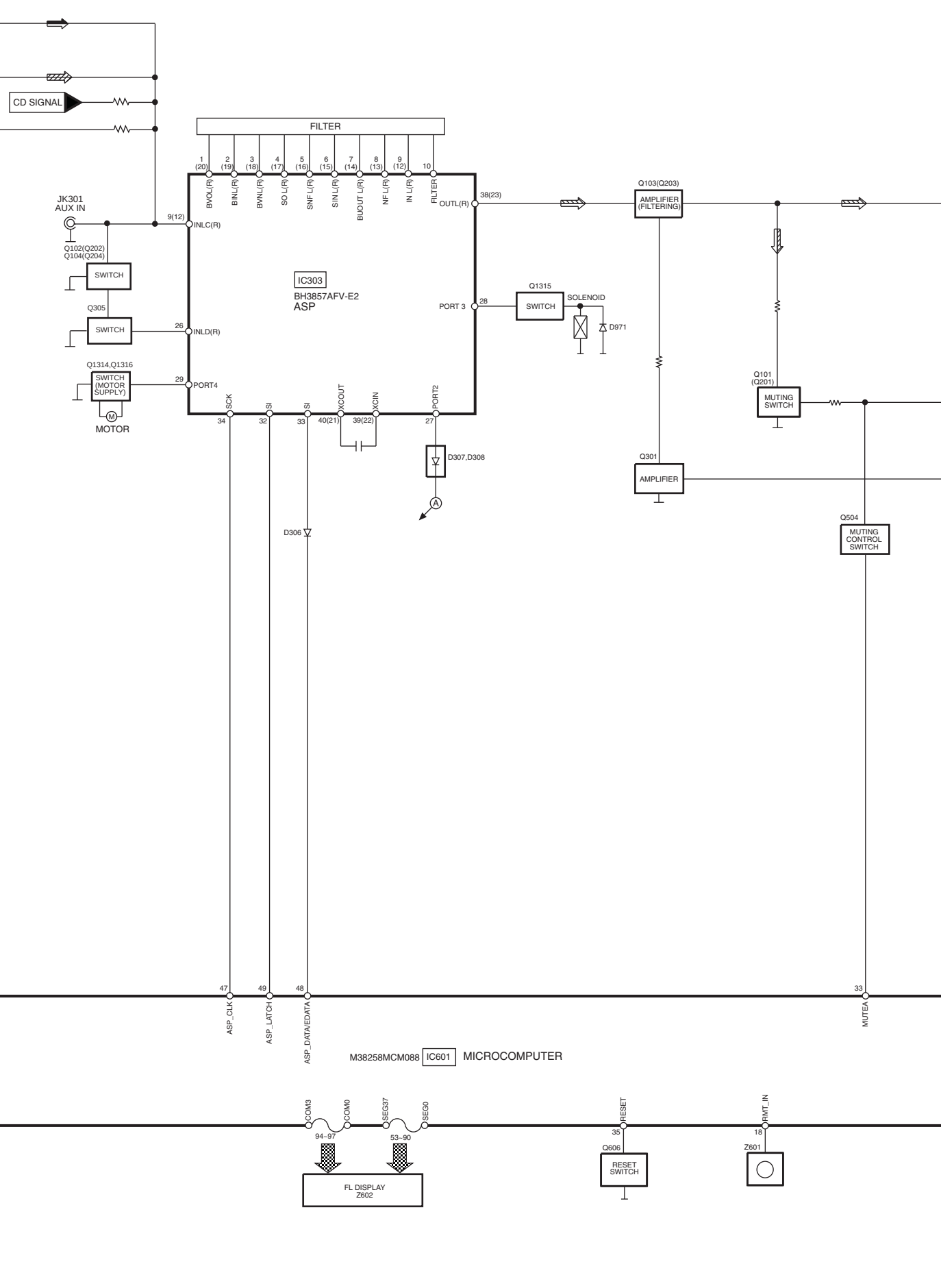

CD OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
Q701
LASER POWER DRIVE
IC701
AN8885SBE1
SERVO AMP
LPD
LD
PDA
LDON
PDB
PDE
PDF
RF
RFIN
CRBRT
CEA
OFTR DET.
3 TENV
ENV
OFTR
BDO
BDO DET.
/RFDET
RF DET.
FEN
FE OUT
FE
VCC
VREF
GND
VDET
ACH
BCH
VCBA
SUBTRACTER
ECH
FCH
TBAL
FBAL
TEN
CROSS
TEOUT
TEBPF
IC703
BA5948FPE2
BTL DRIVER
FOCUS COIL
TRACKING COIL
M701 TRAVERSE MOTOR
M702 SPINDLE MOTOR
LEVEL SHIFT
[CH1]
[CH2]
[CH3]
[CH4]
IN1
IN2
IN3
IN4
MUTE [CH1]
MUTE [CH2]
PC1
PC2
FOD
TRD
LOADING
TVD
ECS
ECM
PC
TE

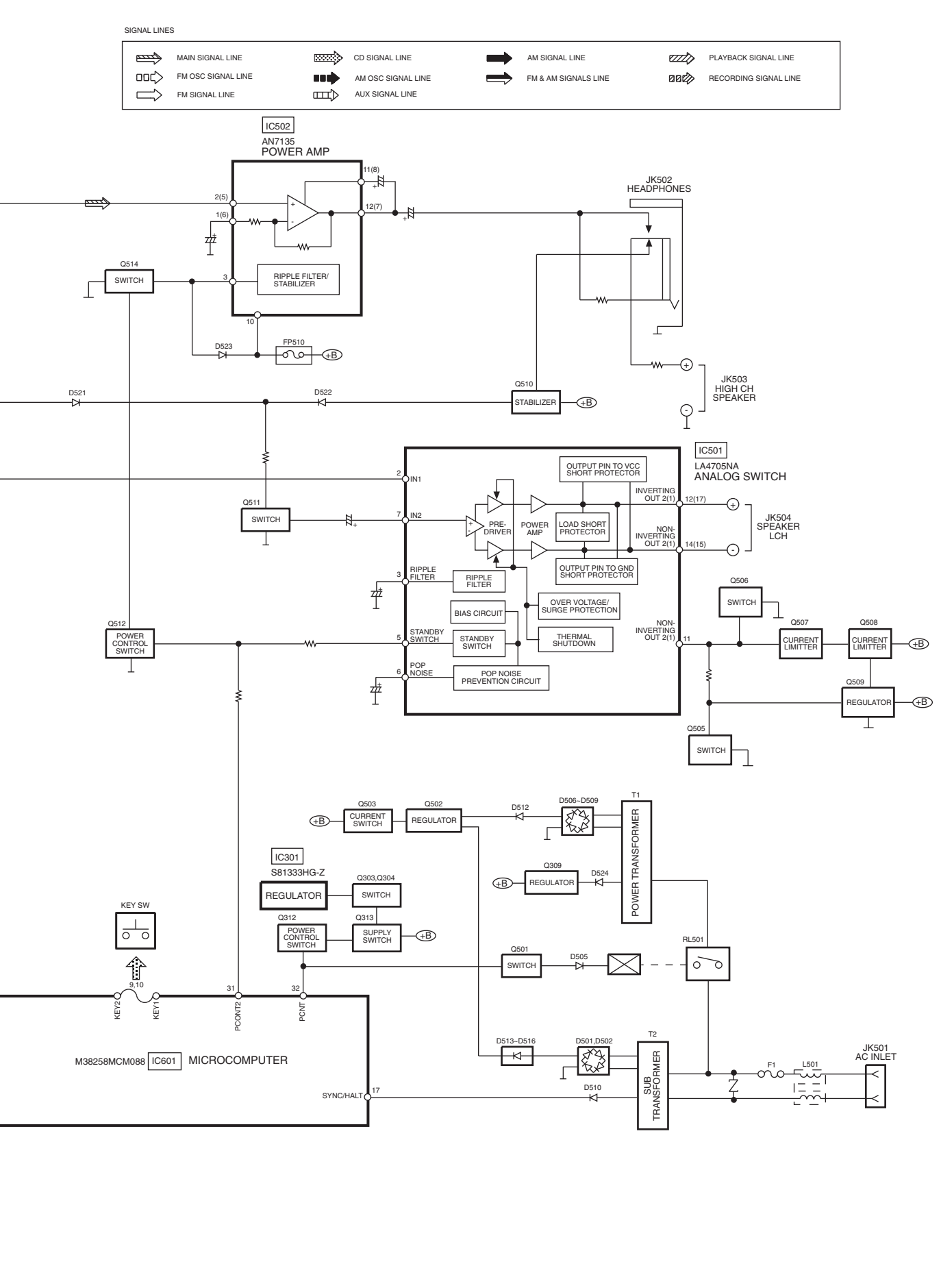

IC702
MN662790RSC
SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR
DIGITAL FILTER/D/A CONVERTER
TO MAIN UNIT
E
+B
66
78
79
80
IOSEL
PSEL
MSEL
SSEL
CLVS
CRC
BLKCK
/CLDCK
SBCK
SUBC
DEMPH
SSEL
SQCK
SUBQ
PCK
PLLF
EFM
PLLF2
DSLF
DRF
ARF
RSEL
PSEL
MLD
MCLK
MDATA
IREF
STAT
MSEL
VCOF2
VCOF
BYTCK
CD-TEXT BUFFER
SUBCODE BUFFER
EFM DEMODULATION/ SYNC INTERPOLATION/ SUBCODE DEMODULATION
DSL/PLL VCO
16K SRAM
CIRC ERROR CORRECTION/ DEINTERLEAVE
DIGITAL DE-EMPHASIS
8 TIMES OVERSAMPLING DIGITAL FILTER
1 BIT DAC PWM LOGICS
PWM (R)
PWM (L)
OUTR
OUTL
RCH
CD SIGNAL
TO MAIN UNIT
FLAG
IPFLAG
TX
ECM
ECS
PC
LRCK
SRDATA
BCLK
DMUTE
DSLF2
KICK
TRV
VREF
TVD
TRD
FOD
TBAL
FBAL
/TLOCK
/FLOCK
DIGITAL AUDIO INTERFACE
DIGITAL AUDIO INTERFACE
INTERPOLATION/ SOFT MUTING/ DIGITAL ATTENUATION
D/A CONVERTER
OUTPUT PORT
MICRO COMPUTER INTERFACE
SERVO CPU
TIMING GENERATOR PITCH CONTROL
VCO
A/D CONVERTER
INPUT PORT
SERVO TIMING GENERATOR
D309
D311
D310
SMCK
FCLK
CSEL
X2 OUT
X1 IN
FE
TE
RFENV
TRCRS
VDET
BDO
/RFDET
OFT
SENSE
WVEL
LDON
/RST
X701
(16.9344 MHz)
FE
TE
ENV
BDO
/RFDET
OFT
LDON
/CDRST


FM ANT
Z20
Q1
Q2
MIXER
RF AMP
Q3
OSC
Q4
BUFFER
+B
(FM)
CF1
Q1,Q2
FM IF AMP
CF2
AM ANT
Z1
AM ANT COIL
AM OSC COIL
(FM)
+B
Q105(Q205)
MUTING SWITCH (TUNER)
TMUTE
IC1
LA1833NMNTLM
IF & MPX IC (TUNER)
RCH
ALC
AM OSC
BUFFER
AM MIX
AM RF AMP
DECODER
PHASE DET
PILOT CANCEL
AGC
LEVEL DET
S-CURVE
AM IF
AM DET
STEREO SWITCH
FM IF
FM DET
AM/FM IF BUFFER
COMP
VCO
TUNING DRIVE
FF
PILOT DET
REG
SD
ST
X2
Z2
AM IFT
ST/DO
SD
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X103
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
POWER ON RESET
Q6
POWER SUPPLY SWITCH
IC2
LC72131MDTRM
PLL IC (TUNER)
E

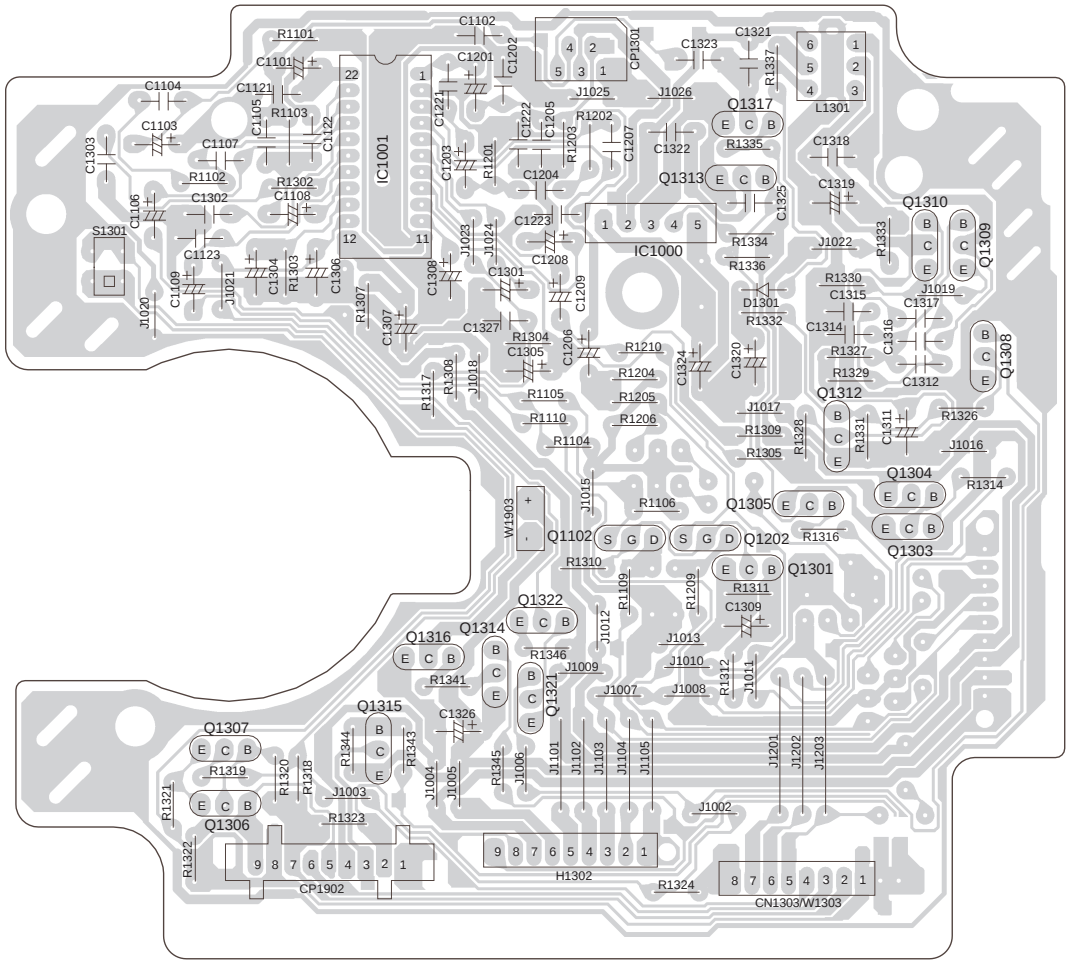

-B
TMUTE
LOADING
Q306
STAT
SWITCH
Q307
SUBQ
SWITCH
ST/DO
Q308
BLKCK
SWITCH
/CDRST
S702
+B
SD
SQCK
D610
D611
D601~D604
Q311
SWITCH (SUPPLY CONTROL)
+B
Q601, Q602
SWITCH
+B
Q603, Q608~Q610
SWITCH
D614~D616
A
20
21
24
25
23
15
22
26
43
44
11
50
8,16,19,30
SQCK
SD
RESTSW
CDRST
BLKCK
P1L_DO/ST
SUBQ
STAT
CD CLOSE
CD_OPEN
TMUTE
CDOPN_SW
LED1~LED3, DIMMER
CE/MLD
12
MLD/PLLCE
DI/MDATA
14
MDATA/PLLDA
CL/MCLK
13
MCLK/PLLCK
VT
-B
M38258MCM088
IC601
MICROCOMPUTER


R/P HEAD (L ch)
FILTER
Q1102(Q1202)
MUTING SWITCH
IC1001
AN7326K
P/B REC AMP
FILTER
22(1)
21(2)
20(3)
19(4)
18
17
16
15
14
13
12
10
PB LIN(R)
PB L NF(R)
PB L EQ(R)
PB L OUT(R)
ALC LOW CUT
TPS GAIN
REC LIN(R)
REC L OUT(R)
ALC
NOR/CRO SW
VCC
RF
+B
RIPPLE REJECTION
LOGIC
TPS
MUTE
ALC
REC AMP (L)
SWITCHING
TPS OUT
6
PB/REC SW
9
Q1301
DECK MUTING CONTROL
IC1000
BA7755A
ANALOG SWITCH
2
3
4
Q1321, Q1322
SWITCH
+B
Q1304
SWITCH
Q1303
SWITCH
Q1308
SWITCH
Q1317
BEAT PROOF LEVEL SWITCH
ERASE HEAD
L1301
+B
Q1309, Q1310, Q1312
BIAS SWITCH
IC971
0N2180RLC1
PHOTO INTERRUPTER
S971 (MODE)
S972 (HALF)
S973 (CR02)
S974 (RECINH_R)
S975 (RECINH_L)
S976 (METAL)
Z971
INTERFACE
Q1313
SWITCH
Q1305
SWITCH
Q1306,Q1307
SWITCH
28
34
4
3
29
27
BP
CR02
MK_IN2
MK_IN1
REC H
DMT
M38258MCM088
IC601
MICROCOMPUTER
V_JOG
5
MBP2
42
MBP1
41
XOUT
39
XIN
38
XCOUT
37
XCIN
36
VR801
JOG VOL
X601
X602
OSCILLATOR
Q604,Q605

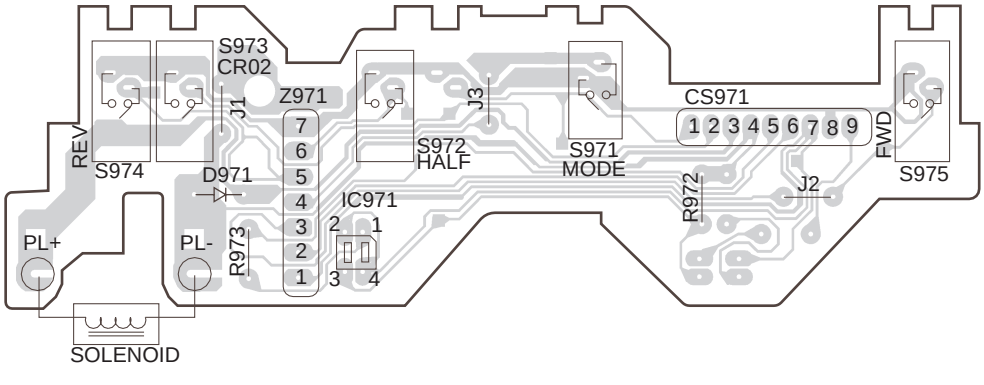

CD SIGNAL
FILTER
1 (20) BVOL(R)
2 (19) BINL(R)
3 (18) BVNL(R)
4 (17) SO L(R)
5 (16) SNF L(R)
6 (15) SIN L(R)
7 (14) BUOUT L(R)
8 (13) NF L(R)
9 (12) IN L(R)
10 FILTER
JK301
AUX IN
9(12) INLC(R)
Q102(Q202)
Q104(Q204)
SWITCH
Q305
SWITCH
26 INLD(R)
Q1314,Q1316
SWITCH (MOTOR SUPPLY)
29 PORT4
MOTOR
IC303
BH3857AFV-E2
ASP
38(23) OUTL(R)
PORT 3 28
Q1315
SWITCH
SOLENOID
D971
34 SCK
32 SI
33 SI
40(21) XCOUT
39(22) XCIN
27 PORT2
D307,D308
A
D306
Q103(Q203)
AMPLIFIER (FILTERING)
Q101 (Q201)
MUTING SWITCH
Q301
AMPLIFIER
Q504
MUTING CONTROL SWITCH
47 ASP_CLK
49 ASP_LATCH
48 ASP_DATA/EDATA
33 MUTEA
M38258MCM088 IC601 MICROCOMPUTER
COM3
COM0
SEG37
SEG0
94~97
53~90
FL DISPLAY Z602
RESET
35
Q606
RESET SWITCH
RMT_IN
18
Z601


SIGNAL LINES
MAIN SIGNAL LINE
FM OSC SIGNAL LINE
FM SIGNAL LINE
CD SIGNAL LINE
AM OSC SIGNAL LINE
AUX SIGNAL LINE
AM SIGNAL LINE
FM & AM SIGNALS LINE
PLAYBACK SIGNAL LINE
RECORDING SIGNAL LINE
IC502
AN7135
POWER AMP
JK502
HEADPHONES
Q514
SWITCH
RIPPLE FILTER/
STABILIZER
D523
FP510
+B
D521
D522
Q510
STABILIZER
JK503
HIGH CH
SPEAKER
IC501
LA4705NA
ANALOG SWITCH
OUTPUT PIN TO VCC
SHORT PROTECTOR
INVERTING
OUT 2(1)
NON-
INVERTING
OUT 2(1)
JK504
SPEAKER
LCH
Q511
SWITCH
IN1
IN2
PRE-
DRIVER
POWER
AMP
LOAD SHORT
PROTECTOR
OUTPUT PIN TO GND
SHORT PROTECTOR
RIPPLE
FILTER
BIAS CIRCUIT
OVER VOLTAGE/
SURGE PROTECTION
STANDBY
SWITCH
THERMAL
SHUTDOWN
POP
NOISE
POP NOISE
PREVENTION CIRCUIT
Q512
POWER
CONTROL
SWITCH
Q506
SWITCH
Q507
CURRENT
LIMITTER
Q508
CURRENT
LIMITTER
Q509
REGULATOR
Q505
SWITCH
Q503
CURRENT
SWITCH
Q502
REGULATOR
D512
D506~D509
T1
POWER TRANSFORMER
IC301
S81333HG-Z
REGULATOR
Q303,Q304
SWITCH
Q309
REGULATOR
D524
KEY SW
Q312
POWER
CONTROL
SWITCH
Q313
SUPPLY
SWITCH
Q501
SWITCH
D505
RL501
KEY2
KEY1
PCONT2
PCNT
M38258MCM088
IC601
MICROCOMPUTER
SYNC/HALT
D513~D516
D501,D502
D510
T2
SUB
TRANSFORMER
F1
L501
JK501
AC INLET

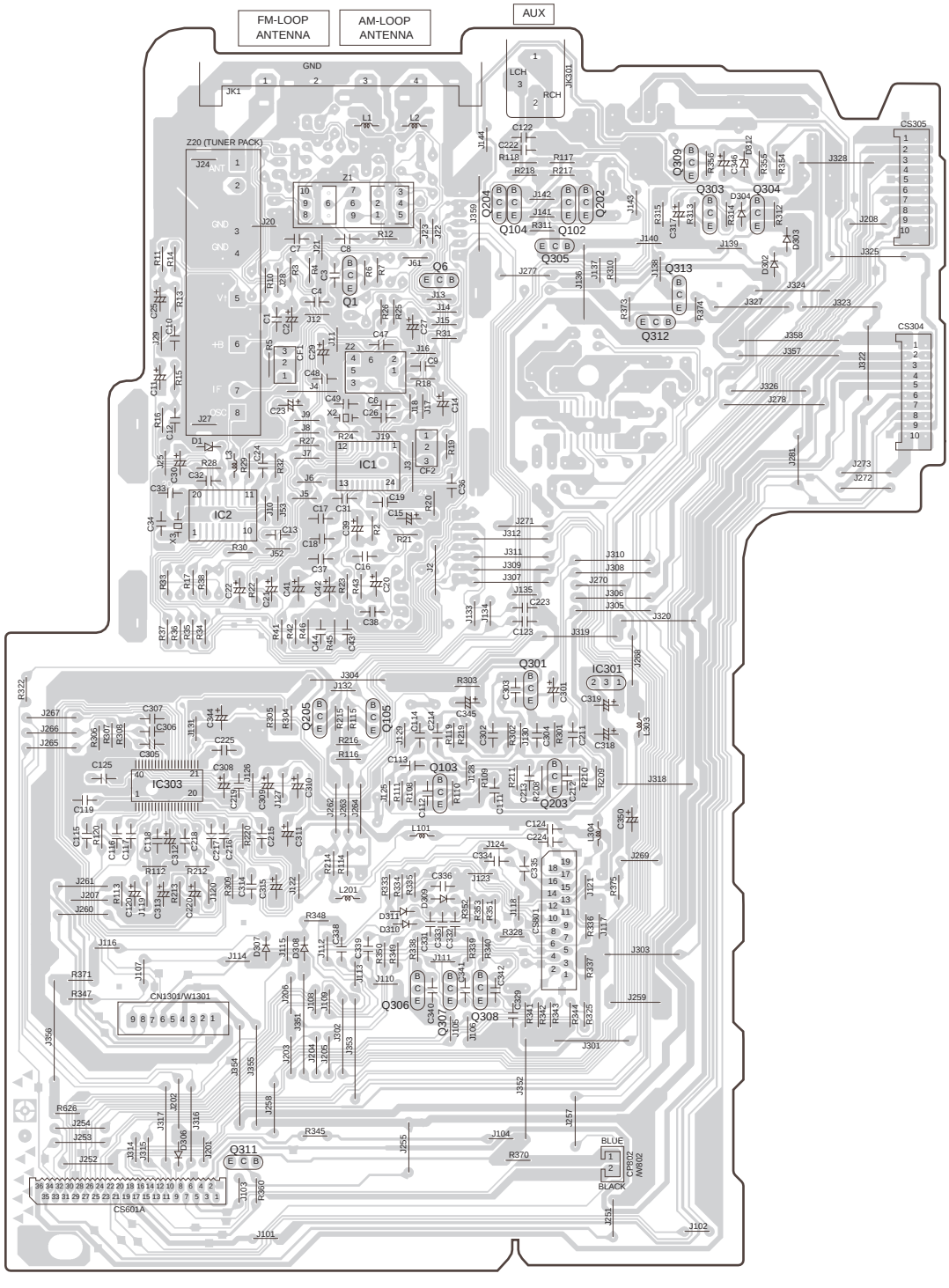
B DECK P.C.B. (REPX0240B)



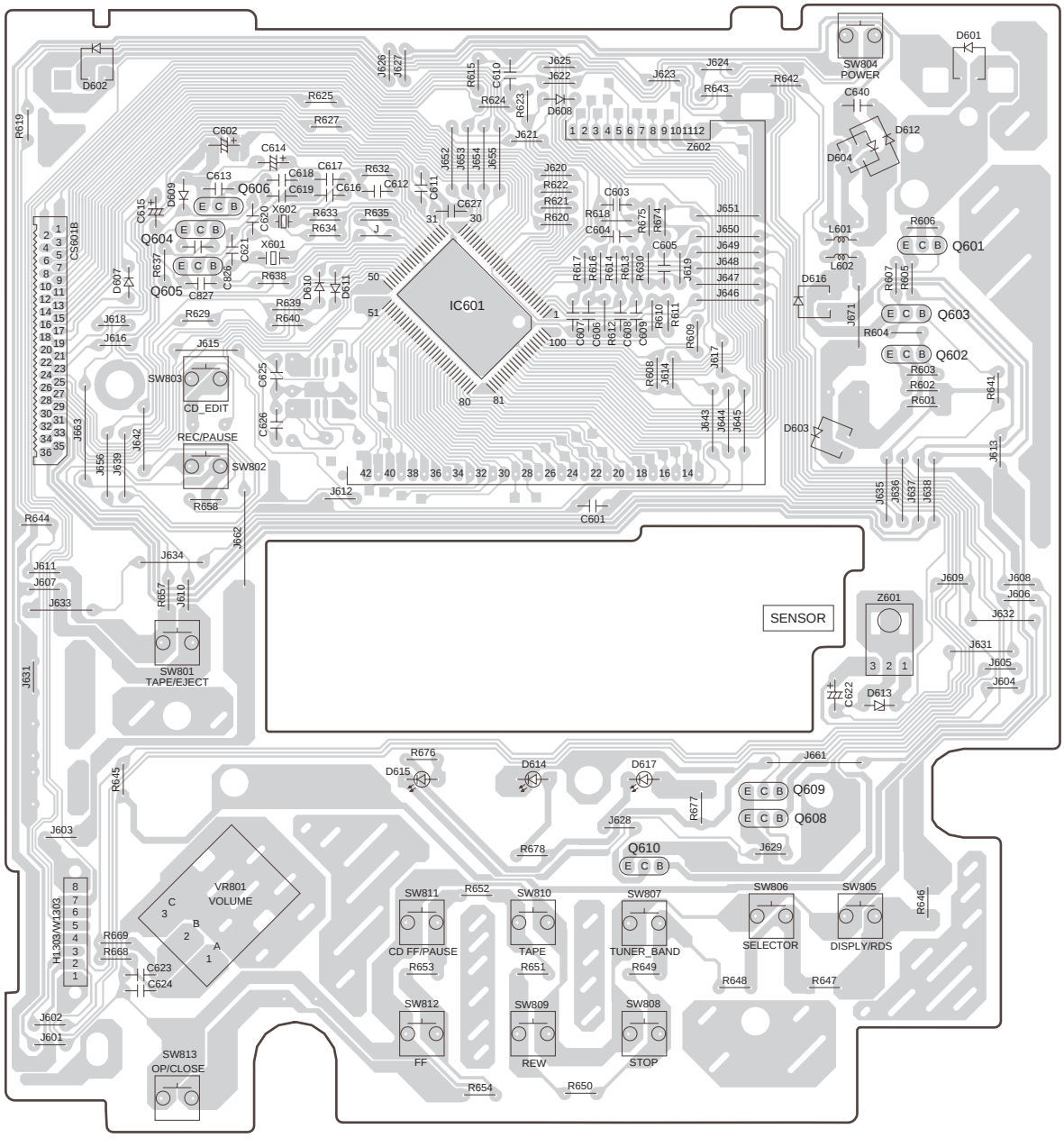
C DECK MECHANISM P.C.B. (REPX0108)



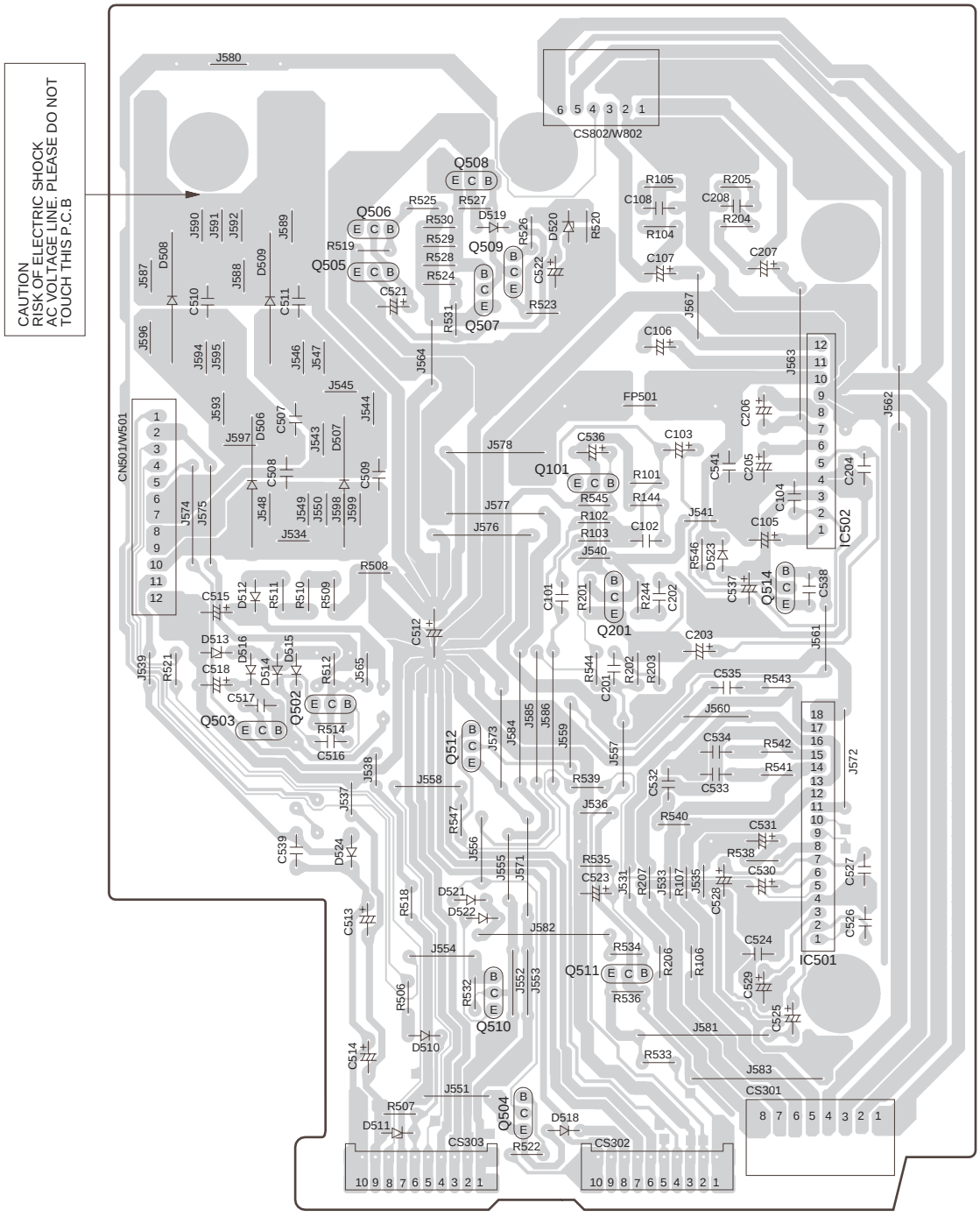
D MAIN / TUNER P.C.B. (REPX0241F)



E PANEL P.C.B. (REPX0242F)

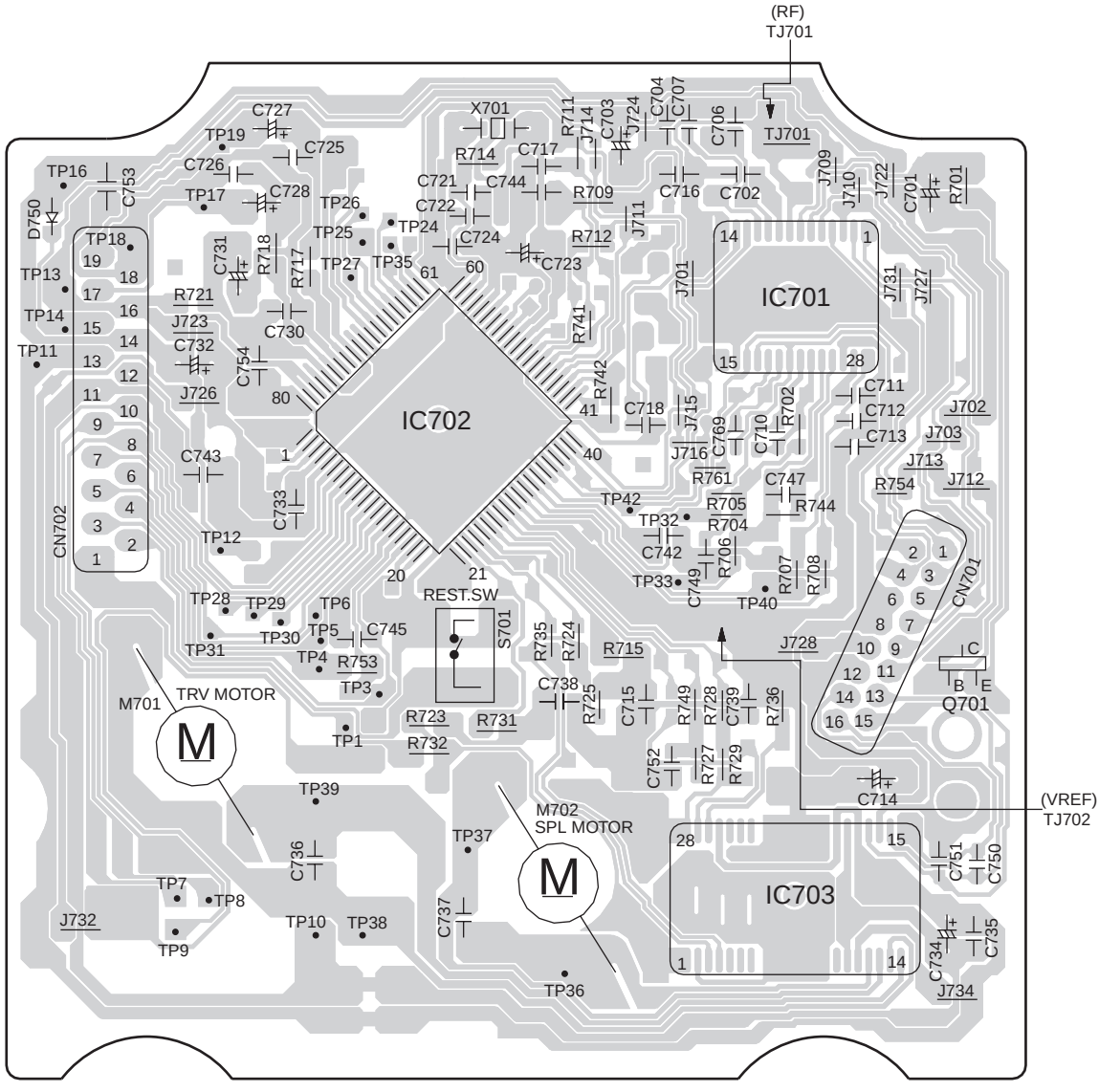


G POWER P.C.B. (REPX0242F)

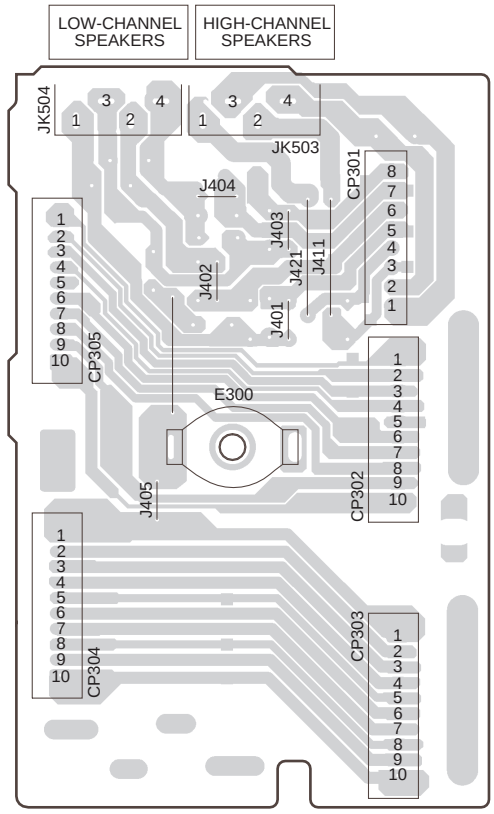


A

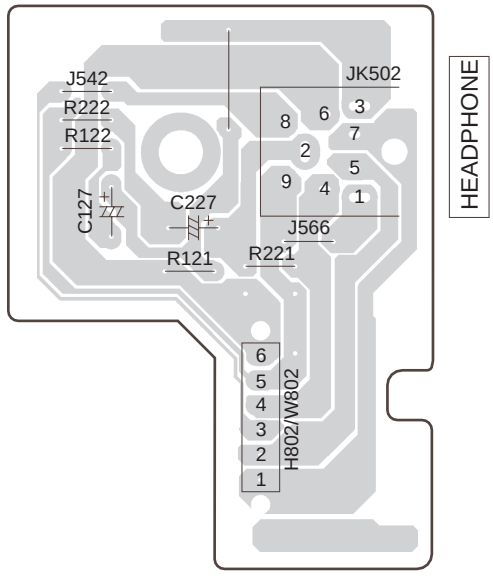
CD SERVO P.C.B (REP2807D)



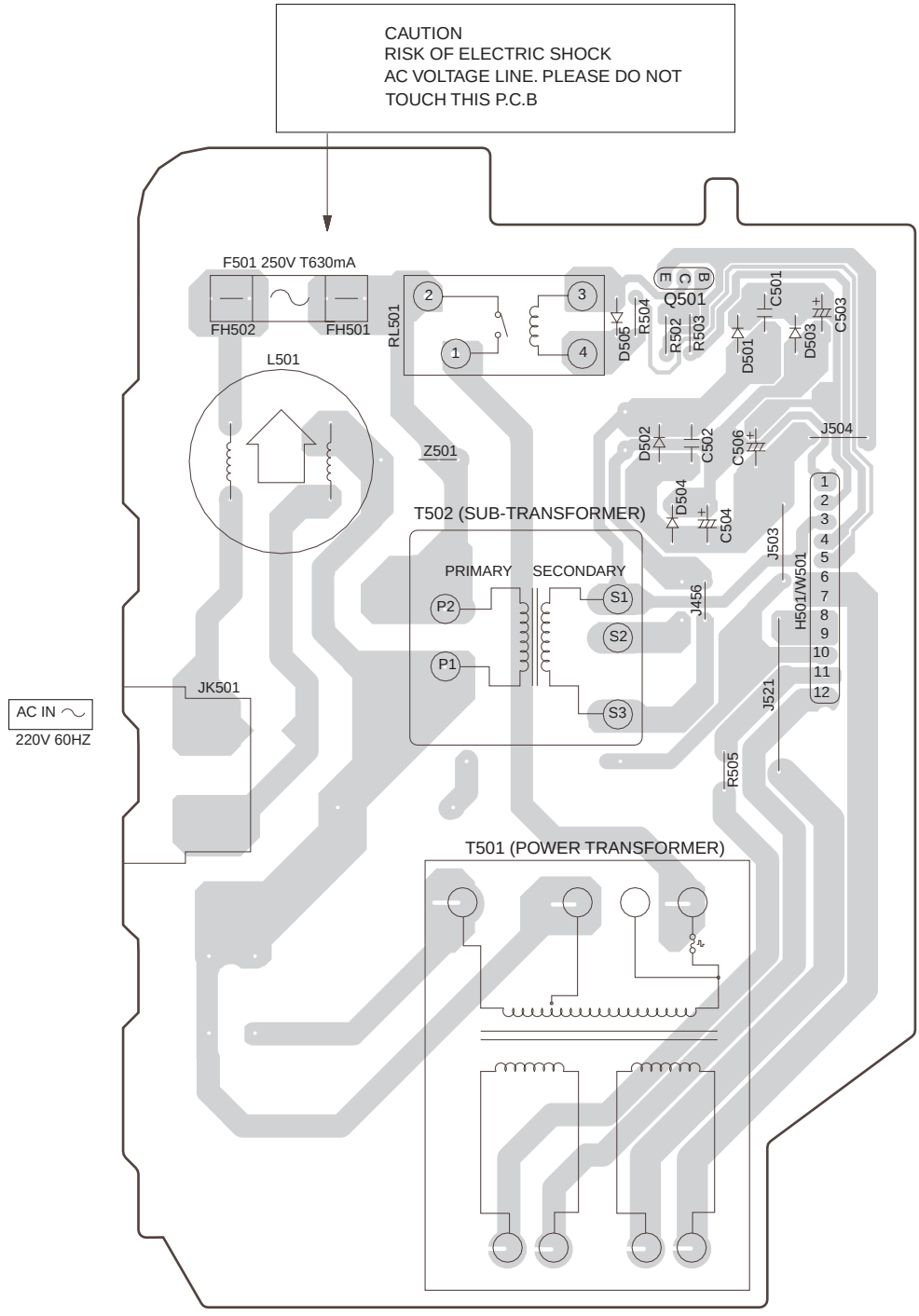
F SPEAKER P.C.B. (REPX0241F)



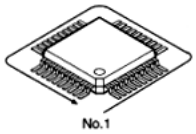
H HEADPHONE P.C.B. (REPX0241F)



I AC TRANSFORMER P.C.B. (REPX0241F)



MN662790RSC (80P)
M3825MCM088 (100P)



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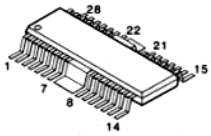
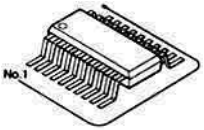
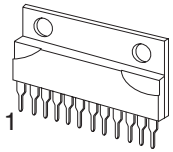


AN8885SBE1 (28P)
BH3857AFV-E2 (40P)
LA1833NMN-TLM (24P)
LC72131MDTRM (20P)



AN7135



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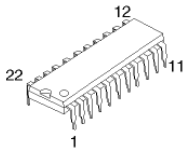
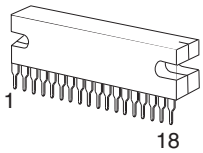
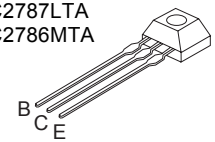


LA4705NA



KRA102MTA
KRA107MTA
KRA110MTA
KRC102MTA
KRC104MTA
KRC111MTA
KRC119MTA

KTC3199GRTA
2SC2787FL1TA
2SC2787LTA
2SC2786MTA



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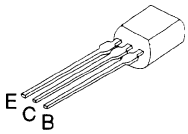
KTA12710YTA
KTC32030YTA



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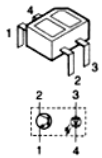
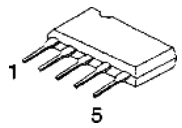


BA7755A



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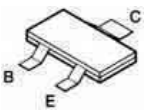

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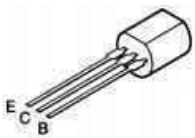
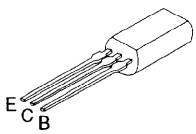
KTA1266GRAT



KRC114MTA



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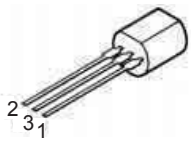
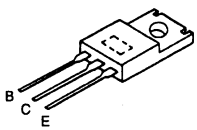


KTA1046



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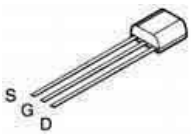
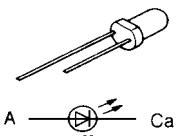


SLA370MT



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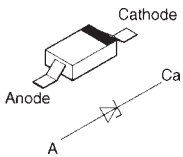

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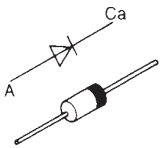

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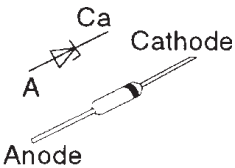

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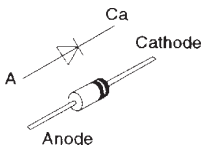

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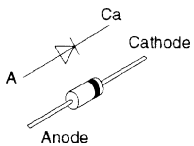

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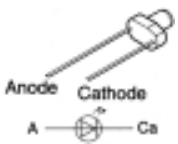

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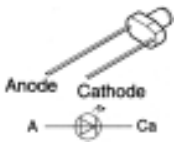

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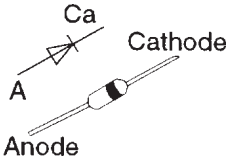

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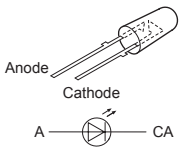

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